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Periodic Review Report

April 29, 2019 to April 29, 2020

NYSDEC Site Number C828126

Location:

Volunteers of America – Back Lot Site
214 Lake Avenue and 18 Ambrose Street
Rochester, Monroe County, New York

Prepared for:

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1.0 EXECUTIVE SUMMARY

1.1 BACKGROUND AND REMEDIAL HISTORY

Bergmann is pleased to submit this Periodic Review Report (PRR) on behalf of Volunteers of America of Upstate New York, Inc. (VOA) for the VOA back lot site located at 214 Lake Avenue and 18 Ambrose Street, City of Rochester, Monroe County, New York (Site). The Site (site code C828126) is enrolled in the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP). Bergmann is retained by VOA for monitoring and reporting requirements in accordance with the Site Management Plan (SMP).

Based upon the results documented in the Remedial Investigation Report (RIR), dated January 4, 2012, the types of contamination at the site that were identified that required remediation included:

- Metals in overburden groundwater are the Contaminants of Concern (COC) site-wide;
- Metals and Semi-Volatile Organic Compounds (SVOCs) are the COC in historic fill materials site-wide; and
- Volatile Organic Compounds in a localized (hot spot) in an isolated area of historic fill materials.

Remedial actions completed at the site in accordance with the NYSDEC approved Alternatives Analysis Report/Remedial Action Work Plan (April 4, 2016) and the NYSDEC Decision Document (Mach 31, 2016) include the following cleanup tasks.

- Site clearing/grubbing, waste characterization, landfill approvals, excavation and transportation for disposal of source area (hot spot) contaminated soils, backfilling the source area excavation, installation of the storm water management system from May 2016 through mid-June 2016.
- Site grading, construction of Site cover system (excluding Haidt Place), installation of fencing, and sealing of cracks in existing roadway and parking areas from mid-June through September 2016.
- Excavation of soil/fill material along the right-of-way of Haidt Place and the installation of a cover system from March through September 2017.
- Prepared a Final Engineering Report (FER) that documents the cleanup and a SMP for long term management of remaining contamination as required by the Environmental Easement;
- Execution and recording of an Environmental Easement to restrict land use and prevent future exposure to any contamination remaining at the Site;
- Periodic certification of the institutional and engineering controls (on-going); and,
- Implementation of a long-term groundwater monitoring plan (on-going).

The site was remediated under the New York State Brownfield Cleanup Program (NYS BCP) administered by the NYSDEC as presented in the approved Final Engineering Report (FER) and Site Management Plan (SMP) dated, December 28, 2017. A SMP was prepared for the Site for long-term management of remaining contamination as required by the Environmental Easement. In accordance with the SMP and the requirements in NYSDEC Division of Environmental Remediation (DER)-10 Technical Guidance for Site Investigation and Remediation, dated May, 2010, and the guidelines provided by NYSDEC the following required work detailed in the SMP was completed during the reporting period from April 29, 2019 through April 29, 2020.

- an annual inspection was conducted of all Engineering controls (EC) and Institutional controls (IC) with reporting on January 14, 2020.

- Quarterly monitoring and reporting of sample results from site monitoring wells was completed as four (4) groundwater sampling events during 2019. Field work for First Quarter monitoring and sampling for 2020 was not completed due this work deemed non-essential by NYSDEC during the on-going pandemic. The 2020 Quarterly monitoring may resume in the second quarter of 2020.

- Second Quarter groundwater monitoring is tentatively scheduled for June 2020.

1.2 EFFECTIVENESS OF THE REMEDIAL PROGRAM

Progress made during the reporting period toward meeting the remedial objectives for the site include continued monitoring of groundwater and maintenance of the institutional and engineering controls in accordance with the SMP. Monitoring data from the work completed to date shows that the remedial program is currently meeting the remedial objectives for the Site during two (2) years with eight (8) Quarterly groundwater monitoring events.

1.3 COMPLIANCE

Areas and conditions of the Site were not identified as being currently out of compliance with the SMP requirements. The requirements dictated in the SMP regarding IC/EC's and the Monitoring Plan were met during the reporting period. The repairs to the cover system during 2019 did not compromise the integrity of the protectiveness of this EC. Repairs presented in the Annual Maintenance Inspection Report should be made before the end of 2020 to ensure continued integrity of the cover system.

1.4 RECOMMENDATIONS

Residual impacts to groundwater quality at the Site are considered low in concentration and has been documented in 2018 and 2019 post-remediation groundwater samples to remain consistent or decreasing over time. It is recommended that groundwater monitoring activities be evaluated for potential termination of Quarterly groundwater monitoring based on the results of eight (8) Quarterly groundwater monitoring events completed at the end of 2019.

Sealing repairs to limited areas of the Type 2 cover system are required during 2020 based on the results of the annual EC/IC inspection. The area of Type 2 cover system was installed in 1998 and is the roadway along Haidt Place that runs north south behind the VOA Children's Center.

2.0 SITE OVERVIEW

VOA entered into a Brownfield Cleanup Agreement (BCA) with the NYSDEC on June 15, 2005, to investigate and remediate a 3.055-acre property located at 18 Ambrose Street (214 Lake Avenue Rear Lot), City of Rochester, Monroe County, New York (Site). The property was remediated to enable restricted-residential use. The BCA was amended on May 31, 2016 and September 27, 2017. The Site is in the City of Rochester, County of Monroe, New York and is identified as Tax Lot #105.60-2-59.003 (18 Ambrose Street) on the City of Rochester Tax Map, which constitutes 1.997 acres and comprises two-thirds of the Site. A portion of Tax Lot #105.60-2-1.002 (214 Lake Avenue), which constitutes 1.058 acres is the balance one-third of the Site. The Site is 3.055-acre area bounded by commercial properties (contractor's yard) to the north Ambrose Street to the south, a contractor's yard to the east

and beyond is the Genesee River Gorge. The VOA Human Service Complex property adjoins the Site to the west (see Figure 1 – Well Location Map). The boundaries of the Site are depicted on Figure 1.

The majority of the Site is located at 18 Ambrose Street, west of the former Raeco Oil Superfund Site, and south of a contractor's equipment storage yard, associated building, and a Monroe County right-of-way to the Pure Waters Tunnel Structure 41. The Site is comprised of portions of two (2) tax parcels of land, which are referred to as the eastern portion of Parcel A and all of Parcel B. The majority of the Site is largely undeveloped, and the western portion of the Site is improved with parking lot area and roadway.

The Site was at one time the southernmost portion of RG&E's approximately 20-plus-acre parcel known as the Ambrose Street or Lake Avenue Coal Yard. Part of former Ambrose Street Coal Yard that is currently, VOA's property was used for surface coal storage from approximately 1918 through the mid-1960's. Subsequent to the use of the property for coal storage, the northeast portion of the Site was used by automobile dealerships from at least 1971 through 1997 for parking/storage of vehicles. Kaplan Container, a drum cleaning company, was also present on this portion of the Site. Prior to 1918, portions of the property had residential structures, which appear to have been demolished on Site into a large deep ravine, which traverses approximately through the middle of the Site, from South to North. This large ravine was historically filled. Railroad tracks were then constructed on top of the historic fill to allow for the transport of coal from existing stockpiles.

Potential contaminants of concern (COC) at the site include metals and SVOCs based on the Remedial Investigation Report (RIR). Volatile Organic Compounds (VOCs) are also included as a COC based on the past presence of levels of VOCs on the off-site VOA Human Services Complex at 214 Lake Avenue. A bedrock groundwater investigation was included as part of the RI scope of work to confirm that off-site VOCs in groundwater had not impacted the Site's groundwater at levels that would require remediation. Low levels of VOCs have been detected in limited groundwater samples in Site monitoring wells. The primary COCs identified in Site media include heavy metals and SVOCs in soil and groundwater systems.

Elevated levels of heavy metal concentrations have been detected Site-wide in samples from the overburden groundwater and to a lesser extent in the bedrock groundwater. The overlying historic fill soils are the source of metals at the Site. Groundwater monitoring of the low-level impacts for metals in groundwater at the Site is part of the selected remedial alternative. The physical impacts to groundwater are partially suppressed by the cover system and storm water management sewer systems, which reduce the infiltration of surface water runoff into the subsurface at the Site, thus reducing further impacts to groundwater. Engineering Controls (EC), along with Institutional Controls (ICs) and Environmental Easements (EE), detailed in the SMP, are implemented to provide protection of human health and the environment. Groundwater quality will be monitored during a five (5) year period on Quarterly basis to evaluate the groundwater quality and groundwater flow direction for the duration of the post-remediation period. After the results of 2-years of groundwater monitoring are completed the duration of the 5-year period of Quarterly monitoring will be petitioned for reduction, pending NYSDEC approval. The methods and procedures for post-remediation groundwater monitoring are detailed in the SMP.

3.0 EVALUATE REMEDY PERFORMANCE, EFFECTIVENESS, AND PROTECTIVENESS

It appears that the levels and types of metals detected during the 2009 RI event have been substantially reduced based on 2-years of post-remediation groundwater monitoring. This trend of reduction of metals is documented in the 2019 Quarterly monitoring reports that were submitted to NYSDEC. In addition, results for post-remediation groundwater monitoring during 2019 indicates a substantial reduction for heavy metals (RCRA 8 Metals) below groundwater standards in groundwater quality as compared to the 2009 RI event elevated levels as noted below.

Range of RCRA 8 Metals Levels 2009 RI Event		Range of levels at end of 2018	Range of levels at end of 2019	703.5 GA Groundwater Standards
Arsenic	13.5 ppb to 160 ppb	Non-detect (ND)	ND	13 ppb
Barium	320 ppb to 1,840 ppb	ND to 131 ppb	ND to 277 ppb	350 ppb
Cadmium	5.6 ppb to 6.2 ppb	ND	ND to 10.8 ppb	2.5 ppb
Chromium	21.5 ppb to 319 ppb	ND	ND	30 ppb
Lead	5 ppb to 6,600 ppb	ND to 11.9 ppb	ND to 55.4 ppb	63 ppb
Mercury	0.93 ppb to 193 ppb	ND	ND to 0.363 ppb	0.18 ppb
Selenium	6 ppb to 21.8 ppb	ND to 10.9 ppb	ND	10 ppb
Silver	2.4 ppb to 16 ppb	ND	ND	2 ppb

In addition to the reduction of heavy metals from 2009 levels the following tends for 2019 groundwater quality results support the performance and effectiveness of the remedy:

- Trend for periodic low levels and lack of frequency of detections of SVOCs with concentrations below 703.5 groundwater quality standards or at levels that slightly exceed the standards;
- Low levels of VOCs previously detected in groundwater samples during the RI event have been reduced to levels that are non-detect (ND), essentially unchanged and below NYSDEC groundwater standards;
- Levels of iron, manganese, and sodium are metals that exceeds groundwater standards with concentrations that were reduced from elevated 2009 RI event levels; and
- Groundwater quality results indicate the effectiveness of the cover system and storm water management sewer system that suppress impacts to groundwater by reducing infiltration of surface water runoff into the subsurface at the Site, thus reducing further impacts to groundwater.

The results of the 2019 Annual Engineering IC/EC Inspection certifies that the condition of the EC (cover system) and IC meets the objectives of the remedy for protectiveness of human health in the environment, see Appendix 2. Continued implementation of the IC, EC and EE detailed in the SMP provides protection of human health and the environment.

4.0 IC/EC COMPLIANCE

4.1 INSTITUTIONAL CONTROLS

The IC boundaries are the same as the BCP Site boundaries as shown on Figure 1. The following IC are included in the SMP for the Site:

- The property may be used for restricted-residential, commercial, or industrial uses;
- All ECs must be operated and maintained as specified in the SMP;
- All ECs must be inspected at a frequency and in a manner defined in the SMP;
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Monroe County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department.
- Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;
- Data and information pertinent to site management must be reported at the frequency and in a manner as defined in the SMP;
- All future activities that will disturb remaining contaminated material must be conducted in accordance with the SMP;
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in the SMP;
- Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easements.
- The potential for vapor intrusion must be evaluated for any buildings developed in the area within the IC boundaries (entire Site) noted on Figure 1. Areas of soil vapor concern and any potential impacts that are identified must be monitored or mitigated; and
- Vegetable gardens and farming on the site are prohibited.

The site-wide inspection in 2019 determined that IC have been complied with including compliance with the EE and the SMP. There are no new conclusions or recommendations for change of IC at this time, see Annual Inspection Report for IC/EC in Appendix 1 – Annual Inspection Report. The NYSDEC IC/EC certification form is presented in Appendix 2 – NYSDEC IC/EC Certification Form.

4.2 ENGINEERING CONTROLS

The EC at the site is the site-wide cover system. The cover system is a permanent EC and the quality and integrity of this system will be maintained and inspected in accordance with maintenance items in the Maintenance Plan and defined inspection intervals in accordance with the SMP in perpetuity. The EC is in compliance based on the 2019 Annual Inspection Report of IC/EC presented in Appendix 1 and EC/IC are certified, see Appendix 2.

5.0 MONITORING PLAN COMPLIANCE

5.1 MONITORING PLAN COMPONENTS

Monitoring and laboratory analyses were completed in accordance with the SMP. A summary of the routine monitoring and analyses is provided in the table below

Monitoring Program	Frequency	Monitored	Matrix	Analysis
Groundwater	Quarterly until otherwise approved by NYSDEC and NYSDOH	MWR-101, MW-101, MWR-102, MW-102, MW-103, MW-105, MW-106, and MW-107	Groundwater	TCL VOCs & SVOCs, TAL Metals
Site Cover / Property Use	Annually until otherwise approved by NYSDEC and NYSDOH	Inspection of Site Cover Condition, Property Use and Environmental Easements	Not Applicable	Not Applicable

5.2 GROUNDWATER MONITORING DATA

Groundwater monitoring was performed Quarterly during the reporting period using low flow sampling methodology in accordance with the SMP. Therefore, post-remediation groundwater sampling has included eight (8) rounds of sampling and reporting to NYSDEC from 2018 and 2019 in addition to the original two (2) rounds of sampling included in the FER. The post-remediation groundwater sampling events during 2019 and through the reporting period have occurred on the following dates:

- April 2, 2019 – Report submitted to NYSDEC
- June 27, 2019 – Report submitted to NYSDEC
- October 4, 2019 – Report submitted to NYSDEC
- January 3, 2020 – Report submitted to NYSDEC
- April 2020 – First Quarterly sampling not completed due to non-essential DEC project work during pandemic.

5.3 WELL MAINTENANCE

Bergmann performs quarterly groundwater sampling at the Site as required in the SMP. In 2019, the existing monitoring wells were accessible for each Quarterly sampling event. Monitoring and sampling at the Site are ongoing in accordance with the Site Management Plan (SMP). The integrity of the monitoring wells at the Site do not appear to be compromised. Monitoring wells in the sampling network appear to be in good condition based on observations during quarterly field sampling. It is noted that MW-101 concrete surface seal was observed to be cracked on the surface; however, this cracking does not appear to impact water quality in this well. The surface seal is recommended for replacement in the 2020 calendar year. Groundwater monitoring well conditions and field observations are summarized in the table below.

Well Number	Type of Well	Location of Well	Condition 1st Quarter	Condition 2nd Quarter	Condition 3rd Quarter	Condition 4th Quarter
MW-101	Overburden	Down - gradient	Cracked Surface Seal	Cracked Surface Seal	Cracked Surface Seal	Cracked Surface Seal
MW-101R	Bedrock	Down - gradient	Good	Good	Good	Good
MW-102	Overburden	Cross - gradient	Good	Good	Good	Good
MW-102R	Overburden	Down - gradient	Good	Good	Good	Good
MW-103	Overburden	Down - gradient	Good	Good	Good	Good
MW-105	Overburden	Up - gradient	Good	Good	Good	Good
MW-106	Bedrock	Up - gradient	Good	Good	Good	Good
MW-107	Overburden	Cross - gradient	Good	Good	Good	Good

5.4 GROUNDWATER FIELD MONITORING AND SAMPLING ACTIVITIES

Groundwater measurements and sampling activities were conducted in accordance with Section 4.0 of the SMP. The depths to groundwater for monitoring wells are measured and recorded on a quarterly basis to track site-wide changes in the water table elevation. The sample collection procedures were generally consistent with Section 4.4.1 in the SMP. Groundwater was purged from the wells using a low flow pump and sample collection. Water was pumped into a flow-through stabilization chamber to collect field readings for pH, temperature, specific conductance, dissolved oxygen (DO), oxidation reduction potential (ORP), turbidity, pH, and temperature parameters. Wells were purged until field readings for groundwater quality indicator parameters stabilized for at least three (3) consecutive readings for the following parameters;

- Water Level Drawdown <0.3 feet
- Temperature - +/- 3%
- pH - +/- 0.1 unit
- Dissolved Oxygen - +/-10%
- Specific Conductance - +/-3%
- Oxidation Reduction Potential - +/-10 millivolts
- Turbidity - +/-10% for values greater than 1 NTU

Purge water from wells was discharged onto the asphalt cover system near each well, as detailed in the SMP. Groundwater samples for the wells were collected directly from the pump discharge line into vials and containers provided by the analytical laboratory. Samples were chemically and thermally preserved as specified by the methodology and/or laboratory and placed in a designated cooler, pre-chilled with ice. Samples were recorded on a chain-of-custody and delivered to the Paradigm Environmental Services, Inc. of Rochester, New York for analysis, an Environmental Laboratory Accreditation Program (ELAP) certified laboratory. Duplicate samples and a trip blank were also collected during the event for quality assurance/quality control (QA/QC) purposes.

Deviations from the monitoring plan included the following items:

- Fourth Quarter sampling event was scheduled for December 27, 2019 and was sampled on January 3, 2020 due to inclement weather.

5.5 SITE GROUNDWATER ELEVATIONS AND FLOW CHARACTERIZATION

The depth to water measurements in the overburden groundwater monitoring wells was measured and water table maps were calculated from elevations that present the approximate groundwater flow directions for 2019. Six (6) overburden monitoring wells were part of the current monitoring well network, as shown on Figure 1. The 2019 overburden monitoring wells monitored included six (6) monitoring wells. Depth to water measurements were recorded during each quarterly monitoring event on April 2, 2019, June 27, 2019, October 4, 2019 and January 3, 2020. The depth to water measurements and calculated elevations are presented in Table 1 – 2019 Groundwater Elevations Summary.

The groundwater contours generally indicate an overburden groundwater flow direction in a northeast direction in the area of the buried ravine in the central area of the Site indicated by a depression in the contour lines. The following is a summary of depth to the water table and overburden groundwater flow characterization for each sampling event in 2019.

First Quarter 2019

Depth to groundwater was measured from six (6) overburden wells and two (2) bedrock wells on April 2, 2019. The April depths to groundwater in overburden groundwater monitoring wells ranged from 15.78 ft. below ground surface (bgs) at MW-101 to 33.06 ft. bgs at MW-103. Both MWR-101 and MWR-102 are bedrock monitoring wells with depth to water at 19.58 ft. and 26.80 ft.; respectfully. The average depth to groundwater at the six (6) overburden monitoring wells measured was 22.45 ft. bgs. Compared to the July 27, 2009 Remedial Investigation sampling event, the April average water table in the overburden decreased by approximately 2.33 ft. This decrease in the water table is inferred as seasonal. First Quarter groundwater depth to water and water table elevations are presented Table 1.

The overburden groundwater contour configuration for April 2, 2019 indicates an overburden groundwater flow direction based on the water level data collected on April 2, 2019, a Water Table Map was created using groundwater elevations and is presented as Figure 2 – Water Table Map (overburden) April 2, 2019. As indicated on Figure 2, groundwater flow in the overburden groundwater table was toward the east from the west side of the Site and towards the west from the east side of the Site. It also appears that there is a northern flow component within the former ravine. The controlling subsurface feature is the former filled ravine that is located below the central area of the Site. The configuration of the groundwater contours is similar to the configuration presented in the July 27, 2009 RI Figure 6 located in the figure section of this report.

Second Quarter 2019

The June depths to groundwater ranged from 18.32 ft. below ground surface (bgs) at MW-105 to 36.64 ft. bgs at MW-103. Depth to water was 21.10 ft. and 28.37 ft. in bedrock wells MWR-101 and MWR-102; respectfully. The average depth to groundwater at the six (6) overburden monitoring wells measured was 25.14 ft. bgs. Compared to the April 2019 sampling event, the June average depth to water in the overburden increased by approximately 2.69 ft. This increase in the depth to the water table is inferred as seasonal. Second Quarter groundwater depth to water and water table elevations are presented Table 1.

The overburden groundwater contour configuration for June 27, 2019 indicates an overburden groundwater flow direction based on a Water Table Map; see Figure 3 – Water Table Map (overburden) June 27, 2019. As indicated on Figure 3, groundwater flow in the overburden groundwater table was toward the east from the west side of the Site and towards the west from the east side of the Site. It also appears that there is a northern flow component within the former ravine. The controlling subsurface feature is the former filled ravine that is located below the central area of the Site. The configuration of the groundwater contours is similar to the

configuration presented in the 2019 First Quarter event and July 27, 2009 RI Figure 6 located in the figure section of this report.

Third Quarter 2019

The October depths to groundwater in overburden groundwater monitoring wells ranged from 18.73 ft. below ground surface (bgs) at MW-105 to 39.53 ft. bgs at MW-103. Depth to water was 21.95 ft. and 29.20 ft. in bedrock wells; MWR-101 and MWR-102; respectfully. The average depth to groundwater at the six (6) overburden monitoring wells measured was 26.86 ft. bgs. Compared to the June 2019 sampling event, the October average depth to water in the overburden increased by approximately 1.72 ft. This increase in the depth to the water table is inferred as seasonal. Third Quarter groundwater depth to water and water table elevations are presented Table 1.

The overburden groundwater contour configuration for October 4, 2019 indicates an overburden groundwater flow direction based on a Water Table Map; see Figure 4 – Water Table Map (overburden) October 4, 2019. As indicated on Figure 4, groundwater flow in the overburden groundwater table was toward the east from the west side of the Site and towards the west from the east side of the Site. It also appears that there is a northern flow component within the former ravine. The controlling subsurface feature is the former filled ravine that is located below the central area of the Site. The configuration of the groundwater contours is similar to the configuration presented in the 2019 First and Second Quarter events as well as the July 26, 2009 RI Figure 6 located in the figure section of this report.

Fourth Quarter 2019

The January 3, 2020 (fourth Quarter 2019 sample date) depths to groundwater in overburden groundwater monitoring wells range from 18.18 ft. bgs at MW-105 to 39.03 ft. bgs at MW-103. Depth to water was 21.55 ft. and 28.71 ft. in bedrock wells MWR-101 and MWR-102; respectfully. The average depth to groundwater at the six (6) overburden monitoring wells measured was 26.35 ft. bgs. Compared to the October 2019 sampling event, the January average depth to water in the overburden decreased by approximately 0.51 ft. This decrease in the depth to the water table is inferred as seasonal. Fourth Quarter groundwater depth to water and water table elevations are presented Table 1.

The overburden groundwater contour configuration for October 4, 2019 indicates an overburden groundwater flow direction based on a Water Table Map; see Figure 5 – Water Table Map (overburden) October 4, 2019. As indicated on Figure 5, groundwater flow in the overburden groundwater table was toward the east from the west side of the Site and towards the west from the east side of the Site. It also appears that there is a northern flow component within the former ravine. The controlling subsurface feature is the former filled ravine that is located below the central area of the Site. The configuration of the groundwater contours is similar to the configuration presented in the 2019 First, Second and Third Quarter events as well as the July 27, 2009 RI Figure 6 located in the figure section of this report.

6.0 MONITORING WELL GROUNDWATER ANALYSIS SUMMARY

Groundwater analytical sample results from each monitoring well are compared to NYSDEC 703.5 Class GA groundwater standards and to concentrations from the July 2009 RI event, presented in Appendix 3 – RI Summary Tables for Groundwater Sample Results. Groundwater analytical laboratory reports are presented in Appendix 4 - Laboratory Results. These results are summarized below for each of the Quarterly monitoring events as follows:

First Quarter 2019

Metals

Results for metals are significantly reduced in comparison to the RI event as noted below for samples from each monitoring well as summarized in Table 2 – 2019 Groundwater Sample Metals Summary.

MW-101

The April 2, 2019 results are compared to the previous results (July 2009). Since, this well was not sampled during 2018 due to a damaged roadway box. Levels of metals indicate substantial reduction in concentrations, except for sodium that increased from 125,000 ppb to 176,000 ppb. This is the same reduction trend observed in samples from other monitoring wells during 2019.

Manganese with a concentration of 412 ppb exceeds the groundwater standard of 300 ppb. Sodium with a concentration of 176,000 ppb exceeds the groundwater standard of 20,000 ppb. Results for other metals have been reduced to non-detect or are below groundwater standards.

MWR-101

Results from Well MWR-101 indicate an increase of Iron from 112 ppb to 306 ppb that slightly exceeds the groundwater standard of 300 ppb. The level of Lead remained unchanged at non-detect (ND) that is below the standard of 25 ppb. The level of Manganese decreased 434 ppb to 164 ppb that is below the standard of 300 ppb. The level of Selenium remained at ND that is below the standard of 10 ppb. The level of Sodium exceeds the standard of 20,000 ppb and increase from 747,000 ppb to 3,020,000 ppb for this event. Overall, levels have slightly increased during the 2019 First Quarter as compared to the Fourth Quarter 2018 and levels are lower than detected during the 2009 RI event except for increase Sodium. The types of metals detected has also decreased as compared to the 2009 RI event; see Table 2.

MW-102

Results from Well MW-102 indicate a decrease of Barium from 807 ppb to 603 ppb that is below the standard of 1,000 ppb. The level of Iron decreased from 43,200 ppb to 9,270 ppb that exceeds the standard of 300 ppb. Lead remained unchanged at ND and is below the standard of 25 ppb. The levels of Manganese decreased from 1,340 ppb to 770 ppb that exceeds the standard of 300 ppb. The levels of Selenium remained unchanged at ND. The level of Sodium exceeds the standard of 20,000 ppb and decreased from 1,760,000 ppb to 1,590,000 for this event. Overall, levels of metals detected have decreased from the 2018 Fourth Quarter event and are significantly below levels detected during the 2009 RI event, except for Sodium; see Table 2.

MWR-102

Results indicate an increase of Iron from 581 ppb to 1,210 ppb that exceeds the standard of 300 ppb. The level of Manganese slightly decreased from 132 ppb to 131 ppb for this event and is below the standard of 300 ppb. The level of Selenium slightly decreased from 10.9 ppb to ND and is below the standard of 10 ppb. The level of Sodium decreased from 307,000 ppb to 305,000 for this event and exceeds the standard of 20,000 ppb. Overall, levels of metals detected decreased from 2018 Fourth Quarter event and are in the range of levels detected during the 2009 RI event; see Table 2.

MW-103

Results indicate an increase of Iron from 754 ppb to 1,650 ppb that exceeds the standard of 300 ppb. The level of Lead remained unchanged at ND and is below the standard of 25 ppb. Manganese slightly decreased from 340 ppb to 331 ppb and slightly exceeds the standard of 300 ppb. The level of Selenium remained unchanged at ND and is below the standard of 10 ppb. The level of Sodium slightly decreased and is in the same range from 134,000 ppb to 133,000 ppb for this event and exceeds the standard of 20,000 ppb. Overall, the levels of metals

detected decreased from 2018 Fourth Quarter event and are in the range of levels detected during the 2009 RI event; see Table 2.

MW-105

Results indicate a decrease of Iron from 7,930 ppb to non-detect that is below the standard of 300 ppb. The level of Lead decreased from 11.9 ppb to ND that is below the standard of 25 ppb. Manganese decreased from 134 ppb to 48.7 ppb that is below the standard of 300 ppb. The level of Selenium remained unchanged at ND and is below the standard of 10 ppb. The level of Sodium decreased from 96,200 ppb to 94,500 and exceeds the standard of 20,000 ppb. Overall, the levels of metals decreased during the 2019 first Quarter compared to the 2018 Fourth Quarter and are significantly lower compared to the 2009 RI event except for Sodium. The level of Sodium is in the same range as the 2009 RI event. The types of metals detected has also decreased as compared to the 2009 RI event; see Table 2.

MW-106

Results indicate a decrease of Iron from 455 ppb to 366 ppb that exceeds the standard of 300 ppb. The level of Lead remained unchanged at ND and is below the standard of 25 ppb. The level of Selenium remained unchanged at ND that is below the standard of 10 ppb. The level of Sodium increased from 22,500 ppb to 25,100 ppb for this event that exceeds the standard of 20,000 ppb. Overall, the levels of metals slightly decreased during the 2019 First Quarter as compared to the 2018 Fourth Quarter and are significantly lower compared to the 2009 RI event. The types of metals detected has also decreased as compared to the 2009 RI event; see Table 2.

MW-107

Results indicate an increase of Iron from 2,740 ppb to 4,310 ppb that exceeds the standard of 300 ppb. Manganese decreased from 378 ppb to 418 ppb that exceeds the standard of 300 ppb. The level of Selenium remained at ND and is below the standard of 10 ppb. The level of Sodium decreased from 63,000 ppb to 56,800 ppb for this event and exceeds the standard of 20,000 ppb. Overall, the levels of metals detected slightly decreased during the 2019 First Quarter Fourth Quarter as compared to the 2018 Fourth Quarter and are significantly lower than the 2009 RI event. The types of metals detected has also decreased as compared to the 2009 RI event; see Table 2.

METALS SUMMARY

It appears that the levels and types of metals detected during the 2009 RI event have been substantially reduced based on the five (5) post-remediation groundwater monitoring. This trend of reduction of metals is documented in the 2018 Quarterly monitoring reports and this 2019 First Quarter report. Overall, there was a slight decrease from the 2018 Fourth Quarter compared to the 2019 first Quarter. it appears that metals are the primary COC for post-remediation groundwater quality monitoring based on the levels detected and frequency of detections. The sample results for metals are summarized in the Table 2 of this report. A copy of the laboratory report for this event is presented in Appendix 4.

Semi-Volatile Organic Compounds (SVOCs)

MW-101

Levels of SVOCs were ND for 2019 first Quarter and indicate a reduction from low levels of the following estimated concentrations of SVOC's that exceed groundwater standards detected during the previous RI events.

MWR-101

Levels of SVOCs remained unchanged at ND. Except for the level of Bis (2-ethylhexyl) phthalate. Bis (2-ethylhexyl) phthalate at 22.7 ppb exceeded the groundwater standard of 5 ppb during the 2018 fourth Quarter and decreased

to ND during the 2019 first Quarter event, see Appendix 4. Bis (2-ethylhexyl) phthalate was detected in this well during the 2009 RI event and 4.0J ppb. Overall, the level of Bis (2-ethylhexyl) phthalate has decrease to ND.

MW-102

Levels were unchanged at ND during the 2018 Fourth Quarter and 2019 First Quarter events. Levels of SVOCs were ND or below standards during the RI event.

MW-102R

Levels were unchanged at ND during the 2018 Fourth Quarter and 2019 First Quarter events; see Appendix B. Levels of SVOCs were ND or below standards during the RI event, except for detection of Bis (2-Ethylhexyl) Phthalate at 9.0 ppb that slightly exceeded the standard of 5 ppb.

MW-103

Levels were unchanged at ND during the 2018 Fourth Quarter and 2019 First Quarter events.

Levels of SVOCs slightly exceeded standards during the RI event, see Appendix 3.

MW-105

Levels were unchanged at ND during the 2018 Fourth Quarter and 2019 First Quarter events. Levels of SVOCs were ND or below standards during the RI event.

MW-106

Level of Pyrene were unchanged at ND during the 2018 Fourth Quarter and 2019 First Quarter events.

Other SVOCs were ND during the 2019 First Quarter event. Levels of SVOCs exceeded standards during the RI event.

MW-107

Levels were unchanged at ND during the 2018 Fourth Quarter and 2019 First Quarter events. This monitoring well was sampled during the RI event for metals only. Therefore, there are no previous RI event results for SVOCs for this well.

SVOCs SUMMARY

In general, the low levels of SVOCs previously detected in groundwater samples during the RI event have been reduced to levels that are ND and below standards, see Appendix 3 and 4. It should be noted that the majority of the SVOCs detected during the RI event were estimated values and or detected in the blank samples. It appears that SVOCs are a secondary COC for post-remediation groundwater monitoring based on the low levels and lack of frequency of detections. A copy of the laboratory report for this event is presented in Appendix 4.

Volatile Organic Compounds (VOCs)

MW-101

The results for VOCs during the previous RI event was ND, except for and estimated value of 2.0JB ppb of Acetone that was also detected in the VOC trip blank. Results for 2019 First Quarter were ND.

MW-101R

The results for low level VOC decreased from 2018 Fourth Quarter to 2019 First Quarter. The level of cis-1, 2-Dichloroethene decreased from 4.34 ppb to 1.71J and is below the standard of 5 ppb. The level of other VOCs remained unchanged at ND. Overall, this low-level detection of cis-1, 2-Dichloroethene is consistent with levels detected during previous Quarterly events and lower compared to the RI events, see Appendix 3.

MW-102

Levels were ND during 2018 Fourth Quarter event and remain at ND for the 2019 First Quarter event. Levels of VOCs were ND or below standards during the RI event.

MW-102R

Levels of cis-1, 2-Dichloroethene decreased from 1.18J in 2018 Fourth Quarter to 1.53J ppb for the 2019 First Quarter. This estimated value is below the standard of 5 ppb. Methyl tert-butyl Ether (MTBE) was detected with a concentration of 9.65 ppb in 2018 Fourth Quarter that increased to 20.7 ppb in the 2019 First Quarter event that exceeds the standard of 10 ppb. Levels of cis-1, 2-Dichloroethene at 1.0J ppb and MTBE at 31.0 ppb were detected during the RI event. Therefore, overall the levels of these VOCs have remained the same or decreased.

MW-103

Levels were ND during the 2018 Fourth Quarter event and remain at ND for the 2019 First Quarter event. Levels of VOCs were ND or below standards during the RI event.

MW-105

Levels were ND during the 2018 Fourth Quarter event and remain at ND for the 2019 First Quarter event. Levels of VOCs were ND or below standards during the RI event; see Appendix 3.

MW-106

Levels were ND during the 2018 Fourth Quarter event and remain at ND for the 2019 First Quarter event. Levels of VOCs were ND or below standards during the RI event; see Appendix 3.

MW-107

Levels were ND during the 2018 Fourth Quarter event and remain at ND for the 2019 First Quarter event. Levels of VOCs were ND or below standards during the RI event; see Appendix 3.

VOCs SUMMARY

In general, the low levels of VOCs previously detected in groundwater samples during the RI event have been reduced to levels that are ND, essentially unchanged and below NYSDEC groundwater standards. The exception is in samples from MWR-102 were low-levels of cis-1,2 Dichloroethene estimated in the 1 ppb range are below standards. Periodic detections of MTBE in samples from MWR-102 range from below the standard of 10 ppb to 20.7 ppb. The RI event level of MTBE was 31.0 ppb. Overall, the level of MTBE has decreased.

It should be noted that the majority of the VOCs detected during the RI event were estimated values and or detected in the blank samples. These results establish a trend for periodic low levels of VOCs below standards or at levels that slightly exceed standards in samples from MWR-102. Therefore, VOCs are a secondary COC for post-remediation groundwater monitoring based on low levels and lack of frequency of detections. A copy of the laboratory report for this event is presented in Appendix 4.

Quality Control Sample Results

A blind duplicate sample was collected from MW-103 in accordance with the SMP and analyzed for Metals, SVOCs and VOCs. The result is consistent with the level as detected in sample MW-103. Matrix spike and matrix spike duplicates samples were also collected from this monitoring well. An aqueous trip blank sample was provided by the laboratory for VOCs analysis. The results for the trip blank sample were ND, see Appendix 4.

Second Quarter 2019

Metals

Results for metals are similar in comparison to the 2019 First Quarter event as noted below for samples from each monitoring well as summarized in Table 2.

MW-101

The June 27, 2019 results are compared to the previous results from April 2, 2019. Levels of metals indicate substantial reduction in concentrations. Manganese with a concentration of 587 ppb increased from 412 ppb exceeds the groundwater standard of 300 ppb. Sodium with a concentration of 176,000 ppb was reduced to 132,00 ppb that exceeds the groundwater standard of 20,000 ppb. Iron with a concentration of 9,320 ppb decreased from 10,900 ppb and exceeds the groundwater standard of 300 ppb. Results for other metals have been reduced to non-detect or are below groundwater standards.

WR-101

Results from Well MWR-101 indicate an increase of Iron from 306 ppb to 4,120 ppb that exceeds the groundwater standard of 300 ppb. The level of Lead increased from non-detect (ND) to 44 ppb that is exceeds the standard of 25 ppb. The level of Manganese decreased 164 ppb to 48.6 ppb that is below the standard of 300 ppb. The level of Selenium remained at ND that is below the standard of 10 ppb. The level of Sodium exceeds the standard of 20,000 ppb and decreased from 3,020,000 ppb to 340,000E ppb (estimated value) for this event. In general, 2019 Second Quarter levels are lower than detected during the 2019 First Quarter event, see Table 2. The types of metals detected has also decreased as compared to the 2009 RI event, see Appendix 3.

MW-102

Results from Well MW-102 indicate an increase of Barium from 613 ppb to 925 ppb that is below the standard of 1,000 ppb. The level of Iron increased from 9,270 ppb to 46,900 ppb that exceeds the standard of 300 ppb. Lead remained unchanged at ND and is below the standard of 25 ppb. The levels of Manganese increased from 770 ppb to 2,070 that exceeds the standard of 300 ppb. The levels of Selenium increased ND to 18.8J that exceeds the standard of 10 ppb. The level of Sodium exceeds the standard of 20,000 ppb and increased from 1,590,000 ppb to 1,660,000E for this event. Overall, levels of metals detected have increased from the 2019 First Quarter event as compared to the 2019 Second Quarter and are significantly below levels detected during the 2009 RI event, except for Sodium; see Table 2.

MWR-102

Results indicate a decrease of Iron from 1,210 ppb to ND that is below the standard of 300 ppb. The level of Manganese slightly decreased from 131 ppb to 129 ppb for this event and is below the standard of 300 ppb. The level of Selenium remained unchanged at ND and is below the standard of 10 ppb. The level of Sodium increased from 305,000 ppb to 308,000 ppb for this event and exceeds the standard of 20,000 ppb. Overall, levels of metals detected decreased from 2019 First Quarter to 2019 Second Quarter and are in the range of levels detected during the 2009 RI event; see Table 2.

MW-103

Results indicate an increase of Iron from 2,250 ppb to 9,140 ppb that exceeds the standard of 300 ppb. The level of Lead decreased from 6.80 ppb to ND and is below the standard of 25 ppb. Manganese increased from 360 ppb to 412 ppb and exceeds the standard of 300 ppb. The level of Selenium increased from ND to 11.3J and exceeds the standard of 10 ppb. The level of Sodium increased from 114,000 ppb to 132,000 ppb for this event and exceeds the standard of 20,000 ppb. Overall, the levels of metals detected increased from the 2019 First Quarter compared to 2019 Second Quarter and are below the range of levels detected during the 2009 RI event; see Table 2.

MW-105

Results indicate that Iron remained unchanged at ND that is below the standard of 300 ppb. The level of Lead remained unchanged at ND and is below the standard of 25 ppb. Manganese increased from 48.7 ppb to 95 ppb that is below the standard of 300 ppb. The level of Selenium increased from ND to 14.2J and is below the standard of 10 ppb. The level of Sodium decreased from 94,500 ppb to 88,700 ppb and exceeds the standard of 20,000 ppb. Overall, the levels of metals increased during the 2019 Second Quarter as compared to 2019 First Quarter and are significantly lower compared to the 2009 RI event except for Sodium. The level of Sodium is in the same range as the 2009 RI event. The types of metals detected has also decreased as compared to the 2009 RI event; see Appendix 3 and Table 2.

MW-106

Results indicate an increase of Iron from 366 ppb to 448 ppb that exceeds the standard of 300 ppb. The level of Lead remained unchanged at ND and is below the standard of 25 ppb. The level of Selenium remained unchanged at ND that is below the standard of 10 ppb. The level of Sodium increased from 25,100 ppb to 43,100 ppb for this event that exceeds the standard of 20,000 ppb. Overall, the levels of metals slightly increased during the 2019 Second Quarter as compared to 2019 First Quarter and are significantly lower compared to the 2009 RI event. The types of metals detected has also decreased as compared to the 2009 RI event; see Table 2.

MW-107

Results indicate a decrease of Iron from 4,310 ppb to 3,810 ppb that exceeds the standard of 300 ppb. Manganese decreased from 418 ppb to 394 ppb that exceeds the standard of 300 ppb. The level of Selenium remained at ND and is below the standard of 10 ppb. The level of Sodium decreased from 56,800 ppb to 54,500 ppb for this event and exceeds the standard of 20,000 ppb. Overall, the levels of metals detected decrease during the 2019 Second Quarter as compared to the 2019 First Quarter and are significantly lower than the 2009 RI event. The types of metals detected has also decreased as compared to the 2009 RI event; see Table 2.

METALS SUMMARY

It appears that the levels and types of metals detected during the 2009 RI event have been substantially reduced based on the six (6) post-remediation groundwater monitoring results. This trend of reduction of metals is documented in the 2018 Quarterly monitoring reports and this 2019 First Quarter and the Second Quarterly monitoring report. Overall, there was a slight decrease from the 2019 First Quarter compared to the 2019 Second Quarter. A copy of the laboratory report for this event is presented in Appendix 4.

Semi-Volatile Organic Compounds (SVOCs)

MW-101

Levels of SVOCs were ND for 2019 first Quarter and indicate a reduction from low levels of the following estimated concentrations of SVOC's that exceed groundwater standards detected during the previous RI events as listed below.

MWR-101

Levels of SVOCs remained unchanged at ND. Bis (2-ethylhexyl) phthalate was detected in this well during the 2009 RI event and 4.0J ppb. Overall, the level of Bis (2-ethylhexyl) phthalate has decrease to ND.

MW-102

Levels were unchanged at ND during 2019 First and Second Quarter events. Levels of SVOCs were ND or below standards during the RI event.

MW-102R

Levels were unchanged at ND during 2019 First and Second Quarter events. Levels of SVOCs were ND or below standards during the RI event except for detection of Bis (2-Ethylhexyl) Phthalate at 9.0 ppb that slightly exceeded the standard of 5 ppb.

MW-103

Levels were unchanged at ND during the 2019 First and Second Quarter events.

Levels of SVOCs slightly exceeded standards during the RI event, see Appendix 3.

MW-105

Levels were unchanged at ND during the 2019 First and Second Quarter events. Levels of SVOCs were ND or below standards during the RI event.

MW-106

Level of were unchanged at ND during the 2019 First and Second Quarter events.

Levels of SVOCs exceeded standards during the RI event.

MW-107

Levels were unchanged at ND during the 2019 First and Second Quarter events. This monitoring well was sampled during the RI event for metals only. Therefore, there are no previous RI event results for SVOCs for this well.

SVOCs SUMMARY

In general, the low levels of SVOCs previously detected in groundwater samples during the 2009 RI event have been reduced to levels that are ND and below standards during the 2019 Second Quarter event. It appears that sporadic detections of SVOCs were detected during the RI event (see Appendix C), 2018 Second and 2018 Fourth Quarter events. These results establish a trend for periodic low levels of SVOCs below standards or at levels that slightly exceed standards. Therefore, SVOCs are a secondary COC for post-remediation groundwater monitoring based on low levels and lack of frequency of detections. A copy of the laboratory report for this event is presented in Appendix 4.

Volatile Organic Compounds (VOCs)

MW-101

The results for VOCs during the previous RI event was ND, except for and estimated value of 2.0JB ppb of Acetone that was also detected in the VOC trip blank. Results for 2019 First and Second Quarter were ND.

MW-101R

The results for low level VOC decreased from 2019 First Quarter to 2019 Second Quarter. The level of cis-1, 2-Dichloroethene decreased from 1.71J to ND and is below the standard of 5 ppb. Overall, this low-level occasional detection of cis-1, 2-Dichloroethene is consistent with levels detected during previous Quarterly events and lower compared to the RI events, see Appendix 3 and 4.

MW-102

Levels were ND during 2019 First Quarter event and remain at ND for the 2019 Second Quarter event. Levels of VOCs were ND or below standards during the RI event.

MW-102R

Levels of cis-1, 2-Dichloroethene increased from 1.53J ppb during the 2019 First Quarter to 1.01J ppb for 2019 Second Quarter. This value is below the standard of 5 ppb. Methyl tert-butyl Ether (MTBE) was detected with a concentration of 20.7 ppb in the 2019 First Quarter event and has decreased to 13.7 ppb during the 2019 Second Quarter that exceeds the standard of 10 ppb. Levels of cis-1, 2-Dichloroethene at 1.0J ppb and MTBE at 31.0 ppb were detected during the RI event. Therefore, overall the levels of these VOCs have remained the same or decreased.

MW-103

Levels were ND during 2019 First and Second Quarter events. Levels of VOCs were ND or below standards during the RI event.

MW-105

Levels were ND during the 2019 First and Second Quarter events. Levels of VOCs were ND or below standards during the RI event.

MW-106

Levels were ND during the 2019 First Quarter event and slightly increased to 1.88J ppb for 2019 Second Quarter. Levels of VOCs were ND or below standards during the RI event.

MW-107

Levels were ND during 2019 First and Second Quarter events. Levels of VOCs were ND or below standards during the RI event.

In general, the low levels of VOCs previously detected in groundwater samples during the RI event have been reduced to levels that are ND, essentially unchanged and below NYSDEC groundwater standards. The exception is in samples from MWR-102 were low-levels of cis-1,2 Dichloroethene estimated in the 1ppb range are below standards. Periodic detections of MTBE in samples from MWR-102 range from below the standard of 10 ppb to 20.7 ppb. The RI event level of MTBE was 31.0 ppb. Overall, the level of MTBE has decreased.

VOCs SUMMARY

It should be noted that the majority of the VOCs detected during the RI event were estimated values and or detected in the blank samples. These results establish a trend for periodic low levels of VOCs below standards or at levels that slightly exceed standards in samples from MWR-102 and MW-106. Therefore, VOCs are a secondary COC for post-remediation groundwater monitoring based on low levels and lack of frequency of detections. A copy of the laboratory report for this event is presented in Appendix 4.

Quality Control Sample Results

A blind duplicate sample was collected from MW-107. This delicate sample was analyzed for Metals, SVOCs and VOCs. The results for this duplicate sample are consistent with the level as detected in sample MW-107. Matrix spike and matrix spike duplicates samples were also collected from this monitoring well. An aqueous trip blank sample was provided by the laboratory for VOCs analysis. The results for the trip blank sample were ND, see Appendix 4.

Third Quarter 2019

Metals

Results for metals are similar in comparison to the 2019 Second Quarter event as noted below for samples from each monitoring well as summarized in Table 2 – Groundwater Sample Analysis Summary – Metals.

MW-101

The October 4, 2019 results are compared to the previous results from June 27, 2019. Levels of metals indicate some increase in concentrations. Manganese with a concentration of 534 ppb decreased from 587 ppb in the Third Quarter 2019 sampling event. The Manganese concentration exceeded the groundwater standard of 300 ppb. Sodium with a concentration of 149,000 ppb in the Third Quarter 2019 sampling event increased from 132,00 ppb. This sodium concentration exceeds the groundwater standard of 20,000 ppb. Iron with a concentration of 10,500 ppb in the Third Quarter sample event increased from 9,320 ppb and exceeds the groundwater standard of 300 ppb. Lead concentrations increased to 173 ppb and exceeded the groundwater standard of 25 ppb. Mercury concentration increased to 3.15 ppb and exceeded the groundwater standard of 0.7 ppb. Results for other metals are below groundwater standards. The 2019 Third Quarter sampling event resulted in Mercury and Sodium concentrations higher than the 2009 RI event, see Appendix 3.

MWR-101

Results from MWR-101 indicate a decrease of Iron from 4,120 ppb to 1,830 ppb in the 2019 Third Quarter event as compared to the 2019 Second Quarter. The Iron concentration exceeds the groundwater standard of 300 ppb. The level of Lead decreased from 44 ppb to 20.4 ppb. The Third Quarter Lead concentration is below the groundwater standard of 25 ppb. The level of Manganese decreased and remained below the standard of 300 ppb from 48.6 ppb to 27.9 ppb in the Third Quarter event. The level of Selenium remained at ND. The level of Sodium exceeds the standard of 20,000 ppb and decreased from 340,000E ppb to 210,000 ppb (estimated value) for this event. In general, 2019 Third Quarter levels are lower than detected during the 2009 RI event. The types of metals detected has also decreased as compared to the 2009 RI event; see Table 2.

MW-102

Results from MW-102 indicate an increase of Barium from 613 ppb to 925 ppb in the Third Quarter. This level of Barium is below the standard of 1,000 ppb. The level of Iron increased from 46,900 ppb to 53,000 ppb which exceeds the standard of 300 ppb. Lead increased from ND in the Second Quarter to 9.28J ppb in the Third Quarter which is below the standard of 25 ppb. The levels of Manganese decreased from 2,070 ppb to 1,700 ppb which exceeds the standard of 300 ppb. The levels of Selenium decreased from 18.8J ppb to ND. The level of Sodium exceeds the standard of 20,000 ppb and decreased from 1,660,000E ppb to 187,000 ppb for this event. Overall, levels of metals detected have decreased during the 2019 Third Quarter as compared to the 2019 Second Quarter event and are significantly below levels detected during the 2009 RI event, see Table 2.

MWR-102

Levels of metals indicate an overall decrease in concentrations. The level of Manganese slightly decreased from129 ppb to ND for this Third Quarter event. The level of Selenium remained unchanged at ND and is below the standard of 10 ppb. The level of Sodium decreased from 308,000 ppb to 298,000 ppb for the Third Quarter event and exceeds the standard of 20,000 ppb. Results for other metals have been are below groundwater standards. Overall, levels of metals detected decreased from the Second Quarter to the Third Quarter and are in the range of levels detected during the 2009 RI event; see Table 2 and Appendix 3.

MW-103

Levels of metals indicate slight increase in concentrations. Manganese with a concentration of 278 ppb decreased from 412 ppb in the Third Quarter 2019 sampling event. The Third Quarter Manganese concentration is below the

groundwater exceedance standard of 300 ppb. Sodium with a concentration of 134,000 ppb in the Third Quarter 2019 sampling event increased from 132,00 ppb. This Sodium concentration exceeds the groundwater standard of 20,000 ppb. Iron with a concentration of 3,940 ppb decreased from 9,140 ppb and exceeds the groundwater standard of 300 ppb. Results for other metals are below groundwater standards.

MW-105

Results indicate that Iron increased from ND to 1,010 ppb in the Third Quarter sampling event and is above the standard of 300 ppb. The level of Lead remained unchanged at ND and is below the standard of 25 ppb. Manganese decreased 95 ppb to 79.3 ppb and is below the standard of 300 ppb. The level of Selenium decreased from 14.2J to ND and is below the standard of 10 ppb. The level of Sodium decreased from 88,700 ppb to 87,300 ppb and exceeds the standard of 20,000 ppb. Overall, the levels of metals decreased during the 2019 Third Quarter and are significantly lower compared to the 2009 RI event except for Sodium. The level of Sodium is in the same range as the 2009 RI event, see Appendix 3. The types of metals detected has also decreased as compared to the 2009 RI event; see Table 2.

MW-106

Results indicate an increase of Iron from 448 ppb to 3,740 ppb that exceeds the standard of 300 ppb. The level of Lead increased from ND to 14.9 ppb and is below the standard of 25 ppb. The level of Selenium remained unchanged at ND that is below the standard of 10 ppb. The level of Sodium increased from 34,100 ppb to 109,000 ppb for the Third Quarter event that exceeds the standard of 20,000 ppb. Overall, the levels of metals increased during the Third Quarter as compared to the Second Quarter and are significantly lower compared to the 2009 RI event. The types of metals detected has also decreased as compared to the 2009 RI event; see Table 2.

MW-107

Results indicate a decrease of Iron from 3,810 ppb to 3,300 ppb that exceeds the standard of 300 ppb. Manganese decreased from 394 ppb to 360 ppb in the Third Quarter but exceeds the standard of 300 ppb. The level of Selenium remained at ND and is below the standard of 10 ppb. The level of Sodium increased from 54,500 ppb to 63,100 ppb in the Third Quarter and exceeds the standard of 20,000 ppb. Overall, the levels of metals detected slightly increases during the Third Quarter and are significantly lower than the 2009 RI event. The types of metals detected has also decreased as compared to the 2009 RI event; see Table 2.

METALS SUMMARY

It appears that the levels and types of metals detected during the 2009 RI event have been substantially reduced based on the seven (7) post-remediation groundwater monitoring results. This trend of reduction of metals is documented in the 2018 Quarterly monitoring reports and this 2019 Second Quarter and the Third Quarterly monitoring report. Overall, there was a slight increase from the 2019 Second Quarter compared to the 2019 Third Quarter.

Semi-Volatile Organic Compounds (SVOCs)

MW-101

Levels of SVOCs were unchanged at ND during 2019 Second and Third Quarter events. Levels of SVOCs were ND for 2019 Second Quarter which indicate a reduction from low levels of the following estimated concentrations of SVOC's exceeding groundwater standards during the previous RI event.

MWR-101

Levels of SVOCs remained unchanged at ND. Bis (2-ethylhexyl) phthalate was detected in this well during the 2009 RI event at a concentration of 4.0J ppb, see Appendix 3. Overall, the level of Bis (2-ethylhexyl) phthalate has decreased to ND, see Appendix 4.

MW-102

Levels were unchanged at ND during the 2019 Second and Third Quarter events. Levels of SVOCs were ND or below standards during the RI event.

MW-102R

Levels were unchanged at ND during 2019 Second and Third Quarter events. Levels of SVOCs were ND or below standards during the RI event except for detection of Bis (2-Ethylhexyl) Phthalate at 9.0 ppb that slightly exceeded the standard of 5 ppb.

MW-103

Levels were unchanged at ND during the 2019 Second and Third Quarter events. Levels of SVOCs slightly exceeded standards during the RI event.

MW-105

Levels were unchanged at ND during the 2019 Second and Third Quarter events. Levels of SVOCs were ND or below standards during the RI event.

MW-106

Level of were unchanged at ND during the 2019 Second and Third Quarter events.

Levels of SVOCs exceeded standards during the RI event.

MW-107

Levels were unchanged at ND during the 2019 Second and Third Quarter events. This monitoring well was sampled during the RI event for metals only. Therefore, there are no previous RI event results for SVOCs for this well.

SVOCs SUMMARY

In general, the low levels of SVOCs previously detected in groundwater samples during the 2009 RI event have been reduced to levels that are ND and below standards during the 2019 Third Quarter event. It appears that sporadic detections of SVOCs were detected during the RI event (see Appendix C), 2018 Second and 2018 Fourth Quarter events. These results establish a trend for periodic low levels of SVOCs below standards or at levels that slightly exceed standards. Therefore, SVOCs are a secondary COC for post-remediation groundwater monitoring based on low levels and lack of frequency of detections. A copy of the laboratory report for this event is presented in Appendix 4.

Volatile Organic Compounds (VOCs)

MW-101

The results for VOCs during the previous RI event was ND, except for and estimated value of 2.0JB ppb of Acetone that was also detected in the VOCs trip blank. Results for 2019 Second and Third Quarter were ND**.**

MWR-101

Levels were ND during 2019 Second Quarter event and remain at ND for the 2019 Third Quarter event. Levels of VOCs were ND or below standards during the RI event.

MW-102

Levels were ND during 2019 Second Quarter event and remain at ND for the 2019 Third Quarter event. Levels of VOCs were ND or below standards during the RI event.

MWR-102

Levels of cis-1, 2-Dichloroethene decreased from 1.01J ppb in the 2019 Second Quarter to ND in the 2019 Third Quarter. This value is below the standard of 5 ppb. Methyl tert-butyl Ether (MTBE) was detected with a concentration of 13.7 ppb during the 2019 Second Quarter and decreased to 11.5 ppb in the 2019 Third Quarter that exceeds the standard of 10 ppb. Levels of cis-1, 2-Dichloroethene at 1.0J ppb and MTBE at 31.0 ppb were detected during the RI event. Therefore, overall the levels of these VOCs have remained the same or decreased.

MW-103

Levels were ND during 2019 Second Quarter event and remain at ND for the 2019 Third Quarter event. Levels of VOCs were ND or below standards during the RI event.

MW-105

Levels were ND during 2019 Second Quarter event and remain at ND for the 2019 Third Quarter event. Levels of VOCs were ND or below standards during the RI event.

MW-106

Levels of Chlorobenzene increased from 1.88J ppb for 2019 Second Quarter to 7.35 ppb for the 2019 Third Quarter. Levels of VOCs were ND or below standards during the RI event.

MW-107

Levels of Methylene chloride increased from ND for 2019 Second Quarter to 3.12 ppb for the 2019 Third Quarter that is below the standard of 5 ppb. Levels of VOCs were ND or below standards during the RI event.

VOCs SUMMARY

In general, the low levels of VOCs previously detected in groundwater samples during the RI event have been reduced to levels that are ND, essentially unchanged and below NYSDEC groundwater standards. The exception is in samples from MWR-102 with the periodic detections of MTBE in samples ranging from below the standard of 10 ppb to 20.7 ppb. The RI event level of MTBE was 31.0 ppb. Overall, the level of MTBE has decreased.

It should be noted that the majority of the VOCs detected during the RI event were estimated values and or detected in the blank samples. These results establish a trend for periodic low levels of VOCs below standards or at levels that slightly exceed standards in samples from MWR-102 and MW-106. Therefore, VOCs are a secondary COC for post-remediation groundwater monitoring based on low levels and lack of frequency of detections. A copy of the laboratory report for this event is presented in Appendix 4.

Quality Control Sample Results

A duplicate sample was collected from MWR-102. This duplicate sample was MW-10X and analyzed for Metals, SVOCs and VOCs. The results for this duplicate sample are consistent with the levels detected in sample MWR-102. Matrix spike and matrix spike duplicates samples were collected from monitoring well MW-107. An aqueous trip blank sample was provided by the laboratory for VOCs analysis. The results for the trip blank sample were ND except for the 3.37 J ppb (estimated) of Methylene chloride, see Appendix 4.

Fourth Quarter 2019

Metals

Results for metals are similar in comparison to the 2019 Third Quarter event as noted below for samples from each monitoring well as summarized in Table 2.

MW-101

The January 3, 2020 results are compared to the previous results from October 4, 2019. Levels of metals indicate some increases in concentrations. Manganese with a concentration of 577 ppb increased from 534 ppb in the Third Quarter 2019 sampling event. The Manganese concentration exceeded the groundwater standard of 300 ppb. Sodium with a concentration of 149,000 ppb in the Third Quarter 2019 sampling event increased to 155,000 ppb. This sodium concentration exceeds the groundwater standard of 20,000 ppb. Iron with a concentration of 10,500 ppb in the Third Quarter sample event increased to 8,910 ppb and exceeds the groundwater standard of 300 ppb. Lead concentration decreased to ND from 173 ppb detected in the Third Quarter 2019 sampling event and is below the groundwater standard of 25 ppb. Mercury concentration decreased to ND from 3.15 ppb detected in the Third Quarter 2019 sampling event and is below the groundwater standard of 0.7 ppb. Results for other metals are below groundwater standards.

MWR-101

Results from MWR-101 indicate a decrease of Iron from 1,830 ppb in the Fourth Quarter event to 984 ppm. The Iron concentration exceeds the groundwater standard of 300 ppb. The level of Lead decreased from 20.4 ppb to ND and is below the groundwater standard of 25 ppb. The level of Manganese decreased from 27.9 ppb to 12.3J in the Fourth Quarter event and remained below the standard of 300 ppb. The level of Selenium remained at ND. The level of Sodium exceeds the standard of 20,000 ppb and increased from 210,000 ppb to 878,000 ppb for this event. In general, 2019 Fourth Quarter levels detected are lower than the 2019 Third Quarter and the 2009 RI event. The types of metals detected has also decreased as compared to the 2009 RI event.

In summary, metals concentrations are lower than the 2009 RI event, with the exception of Sodium. The level of Sodium exceeded the groundwater standard, see Table 2.

MW-102

Results from MW-102 indicate a decrease of Barium from 973 ppb to 696 ppb in the Fourth Quarter. This level of Barium is below the standard of 1,000 ppb. The level of Iron decreased from 53,000 ppb to 21,100 ppb which exceeds the standard of 300 ppb. Lead decreased from 9.28J ppb to ND in the Fourth Quarter which is below the standard of 25 ppb. The levels of Manganese decreased from 1,700 ppb to 1,250 ppb which exceeds the standard of 300 ppb. The levels of Selenium remained ND. The level of Sodium exceeds the standard of 20,000 ppb and increased from 187,000 ppb to 1,860,000 ppb for this event. Overall, levels of metals detected have decreased from the 2019 Third Quarter event and are significantly below levels detected during the 2009 RI event, see Table 2 and Appendix 3.

In summary, metals concentrations are lower than the 2009 RI event, with the exception of the following metals: Calcium, Potassium, Sodium and Thallium. Levels of Iron, Manganese, and Sodium exceed the groundwater standards, see Table 2.

MWR-102

Levels of metals indicate an overall slight increase in concentrations. The level of Manganese increased from ND to 161 ppb for this event and is below the groundwater standard of 300 ppb. The level of Selenium remained unchanged at ND and is below the standard of 10 ppb. The level of Sodium decreased from 298,000 ppb to 290,000 ppb for the Fourth Quarter event and exceeds the standard of 20,000 ppb. Results for other metals have

been are below groundwater standards. Overall, levels of metals detected decreased and are in the range of levels detected during the 2009 RI event.

In summary, metals concentrations are lower than the 2009 RI event, with the exception of the following metals: Calcium, Magnesium, Manganese, and Sodium. The levels of Sodium exceeded the groundwater standards, see Table 2.

MW-103

Levels of metals increased in concentrations. The level of Iron in the Fourth Quarter 2019 sampling event increased from 3,940 detected during the Third Quarter to 9,350 ppb and exceeded the groundwater standard of 300 ppb. Manganese increased from 278 ppb to 470 ppb and exceeded the groundwater standard of 300 ppb. Sodium with a concentration of 134,000 ppb increased to 181,000 ppb. This Sodium concentration exceeds the groundwater standard of 20,000 ppb. Results for other metals are below groundwater standards.

In summary, metals concentrations are lower than the 2009 RI event. The levels of Iron, Manganese and Sodium exceeded the groundwater standards, see Table 2.

MW-105

Results indicate that Iron increased from 1,010 ppb to 13,000 in the Fourth Quarter sampling event and this level exceeded the groundwater standard of 300 ppb. The level of Lead slightly increased from ND to 13.6 ppb and is below the groundwater standard of 25 ppb. Manganese increased from 79.3 ppb to 236 ppb and is below the groundwater standard of 300 ppb. The level of Selenium remained unchanged at ND and is below the standard of 10 ppb. The level of Sodium decreased from 87,300 ppb to 78,700 ppb and exceeds the groundwater standard of 20,000 ppb. Overall, the levels of metals increased during the 2019 Fourth Quarter as compared to the 2019 Third Quarter and are significantly lower compared to the 2009 RI event. The level of Sodium is in the same range as the 2009 RI event. The types of metals detected has also decreased as compared to the 2009 RI event.

In summary, metals concentrations are lower than the 2009 RI event, except for Sodium. The levels of Iron and Sodium exceeded the groundwater standards, see Table 2.

MW-106

Results indicate an increase of Iron from 448 ppb to 3,740 ppb that exceeds the standard of 300 ppb. The level of Lead increased from ND to 14.9 ppb to 55.4 ppb and exceeded the groundwater standard of 25 ppb. Mercury slightly increased from ND to 0.363 ppb and is below the groundwater standard of 0.7 ppb. The level of Manganese slight decrease from 405 ppb to 403 ppb. The level of Selenium remained unchanged at ND that is below the standard of 10 ppb. The level of Sodium increased from 109,000 ppb to 120,000 ppb for the Fourth Quarter event that exceeds the standard of 20,000 ppb. Overall, the levels of metals increased during the Fourth Quarter as compared to the 2019 Third Quarter and are significantly lower compared to the 2009 RI event. The types of metals detected has also decreased as compared to the 2009 RI event.

In summary, metals concentrations are lower than the 2009 RI event. The levels of Sodium exceeded the groundwater standards, see Table 2.

MW-107

Results indicate an increase of Iron from 3,300 ppb to 4,540 ppb that exceeds the groundwater standard of 300 ppb. Manganese increased from 360 ppb to 397 ppb in the Fourth Quarter and exceeds the groundwater standard of 300 ppb. The level of Selenium remained at ND and is below the standard of 10 ppb. The level of Sodium increased from 63,100 ppb to 66,300 ppb in the Fourth Quarter and exceeds the standard of 20,000 ppb. Overall, the levels of metals detected slightly increased during the Fourth Quarter and are significantly lower than the 2009 RI event. The types of metals detected has also decreased as compared to the 2009 RI event.

In summary, metals concentrations are lower than the 2009 RI event. The levels of Iron, Manganese and Sodium exceeded the groundwater standards, see Table 2.

METALS SUMMARY

It appears that the levels and types of metals detected during the 2009 RI event have been substantially reduced based on sample results during eight (8) post-remediation Quarterly groundwater monitoring events. This trend of reduction of metals is documented in the 2018 Quarterly monitoring reports and 2019 Quarterly monitoring reports. Overall, there was a slight increase in overall concentrations from the 2019 Fourth Quarter compared to the 2019 Third Quarter.

The most toxic metals are the Resource Conservation and Recovery Act Metals (RCRA 8 Metals) that are included in the metals results for the Quarterly monitoring program. Each of the RCRA 8 Metals exceeded standards during the 2009 RI event and have been substantially reduced to below standards after eight (8) Quarters of post-remediation groundwater monitoring. The table below presents the range for levels of RCRA 8 Metals during the 2009 RI event and current 2019 Fourth Quarter results after eight (8) Quarterly sample events that indicate substantial reductions with each metal below standards, with the exception of Lead.

Range of RCRA 8 Metals Levels 2009 RI Event	Range for 2019 Fourth Quarter levels	703.5 Groundwater Standards
Arsenic 13.5 ppb to 160 ppb	Non-detect (ND)	25ppb
Barium 320 ppb to 1,840 ppb	ND to 277 ppb	1,000 ppb
Cadmium 5.6 ppb to 6.2 ppb	ND to 10.8 ppb	5 ppb
Chromium 21.5 ppb to 319 ppb	ND	50 ppb
Lead 5 ppb to 6,600 ppb	ND to 55.4 ppb	25 ppb
Mercury 0.93 ppb to 193 ppb	ND to 0.363 ppb	0.7 ppb
Selenium 6 ppb to 21.8 ppb	ND	10 ppb
Silver 2.4 ppb to 16 ppb	ND	50 ppb

Semi-Volatile Organic Compounds (SVOCs)

MW-101

SVOCs were ND during the 2019 Fourth Quarter event and unchanged based on eight (8) Quarterly monitoring events. These results indicate a reduction from low levels of estimated concentrations of SVOC's exceeding groundwater standards during the previous RI event.

In summary, SVOC concentrations are ND and lower than the estimated low levels detected in the 2009 RI event. SVOCs do not appear to be a contaminant of concern (COC) in the groundwater at the Site due to lack of detections.

MWR-101

SVOCs were ND during the 2019 Fourth Quarter event and are unchanged based on eight (8) Quarterly monitoring events. Bis (2-ethylhexyl) phthalate was detected in this well during the 2009 RI event at a concentration of 4.0J ppb. Overall, the level of Bis (2-ethylhexyl) phthalate has decrease to ND.

In summary, SVOC concentrations are ND and lower than the estimated low levels detected in the 2009 RI event. SVOCs do not appear to be a contaminant of concern (COC) in the groundwater at the Site due to lack of detections.

MW-102

SVOCs were ND during the 2019 Fourth Quarter event and unchanged based on eight (8) Quarterly monitoring events. These results indicate a reduction from low levels of estimated concentrations of SVOC's exceeding groundwater standards during the previous RI event.

In summary, SVOC concentrations are ND and lower than the estimated low levels detected in the 2009 RI event. SVOCs do not appear to be a contaminant of concern (COC) in the groundwater at the Site due to lack of detections.

MWR-102

SVOCs were ND during the 2019 Fourth Quarter event and unchanged based on eight (8) Quarterly monitoring events. These results indicate a reduction from low levels of estimated concentrations of SVOC's exceeding groundwater standards during the previous RI event. Levels of SVOCs were ND or below standards during the RI event except for detection of Bis (2-Ethylhexyl) Phthalate at 9.0 ppb that slightly exceeded the standard of 5 ppb

In summary, SVOC concentrations are ND and lower than the estimated low levels detected in the 2009 RI event. SVOCs do not appear to be a contaminant of concern (COC) in the groundwater at the Site due to lack of detections.

MW-103

SVOCs were ND during the 2019 Fourth Quarter event and unchanged based on eight (8) Quarterly monitoring events. These results indicate a reduction from low levels of estimated concentrations of SVOC's exceeding groundwater standards during the previous RI event, see Appendix 3.

In summary, SVOC concentrations are ND and lower than the estimated low levels detected in the 2009 RI event. SVOCs do not appear to be a contaminant of concern (COC) in the groundwater at the Site due to lack of detections.

MW-105

SVOCs were ND during the 2019 Fourth Quarter event and unchanged based on eight (8) Quarterly monitoring events. These results indicate a reduction from low levels of estimated concentrations of SVOC's exceeding groundwater standards during the previous RI event.

In summary, SVOC concentrations are ND and lower than the estimated low levels detected in the 2009 RI event. SVOCs do not appear to be a contaminant of concern (COC) in the groundwater at the Site due to lack of detections.

MW-106

SVOCs were ND during the 2019 Fourth Quarter event and unchanged based on eight (8) Quarterly monitoring events. These results indicate a reduction from low levels of estimated concentrations of SVOC's exceeding groundwater standards during the previous RI event.

MW-107

SVOCs were ND during the 2019 Fourth Quarter event and unchanged based on eight (8) Quarterly monitoring events. These results indicate a reduction from low levels of estimated concentrations of SVOC's exceeding groundwater standards during the previous RI event.

In summary, SVOC concentrations are ND and lower than the estimated low levels detected in the 2009 RI event, see Appendix 3. SVOCs do not appear to be a contaminant of concern (COC) in the groundwater at the Site due to lack of detections.

SVOCs SUMMARY

In general, the low levels of SVOCs previously detected in groundwater samples during the 2009 RI event have been reduced to levels that are ND and below standards during the 2019 Fourth Quarter event. It appears that sporadic detections of SVOCs were detected during the RI event, and during the 2018 Second and 2018 Fourth Quarter events. These results establish a trend for periodic low levels of SVOCs below standards or at levels that slightly exceed standards. SVOCs do not appear to be a COC based on low levels and lack of frequency of detections during eight (8) Quarters of post-remediation groundwater monitoring. A copy of the laboratory report for this event is presented in Appendix 4.

Volatile Organic Compounds (VOCs)

MW-101

Results for 2019 Fourth Quarter were unchanged at ND. The results for VOCs during the previous RI event was ND, except for and estimated value of 2.0JB ppb of Acetone that was also detected in the VOCs trip blank.

In summary, VOC concentrations are ND and lower than the estimated low levels detected in the 2009 RI event. VOCs do not appear to be a contaminant of concern (COC) in the groundwater at the Site due to lack of detections.

MWR-101

Results for 2019 Fourth Quarter were unchanged at ND. Levels of VOCs were ND or below standards during the RI event.

In summary, VOC concentrations are ND and lower than the estimated low levels detected in the 2009 RI event, see Appendix C. VOCs do not appear to be a contaminant of concern (COC) in the groundwater at the Site due to lack of detections.

MW-102

Results for 2019 Fourth Quarter were ND. Levels of VOCs were ND or below standards during the RI event.

In summary, VOC concentrations are ND and lower than the estimated low levels detected in the 2009 RI event.

MWR-102

Levels of cis-1,2-Dichloroethene increased from ND to 1.77J (estimated value) in the 2019 Fourth Quarter as compared to the Third Quarter. This value is below the standard of 5 ppb. Methyl tert-butyl Ether (MTBE) increased from 11.5 ppb to 13.9 ppb in the 2019 Fourth Quarter that slightly exceeds the standard of 10 ppb. Levels of cis-1, 2-Dichloroethene at 1.0J ppb and MTBE at 31.0 ppb were detected during the RI event; see Appendix C.

In summary, overall the levels of cis-1, 2-Dichloroethene and MTBE have remained the same or decreased and are sporadically detected during eight (8) Quarterly monitoring events. VOCs are a secondary COC for post-remediation groundwater monitoring based on low levels and lack of frequency of detections.

MW-103

Results for 2019 Fourth Quarter were unchanged at ND. Levels of VOCs were ND or below standards during the RI event. In summary, VOC concentrations are ND and lower than the estimated low levels detected in the 2009 RI event, see Appendix 3 and 4.

MW-105

Results for 2019 Fourth Quarter were ND. Levels of VOCs were ND or below standards during the RI event.

In summary, VOC concentrations are ND and lower than the estimated low levels detected in the 2009 RI event.

MW-106

Levels of Chlorobenzene decreased from 7.35 ppb to 5.48 ppb for the 2019 Fourth Quarter and slightly exceeded the groundwater standard of 5 ppb. Levels of VOCs were ND or below standards during the RI event.

In summary, overall the levels of Chlorobenzene have remained the same or decreased and was sporadically detected during eight (8) Quarterly monitoring events. VOCs are a secondary COC for post-remediation groundwater monitoring based on low levels and lack of frequency of detections.

MW-107

Levels of Methylene chloride increased from ND for 2019 Second Quarter to 3.12 ppb for the 2019 Third Quarter that is below the standard of 5 ppb. Levels of VOCs were ND or below standards during the RI event.

In summary, VOC concentrations are ND and lower than the estimated low levels detected in the 2009 RI event.

VOCs SUMMARY

In general, the low levels of VOCs previously detected in groundwater samples during the RI event have been reduced to levels that are essentially unchanged, and or that slightly exceed groundwater standards. Periodic detections of MTBE in samples ranging from below the groundwater standard of 10 ppb to 20.7 ppb in monitoring well MWR-102. The RI event level of MTBE was 31.0 ppb. The level during Fourth Quarter was 13.6 ppb. Overall, the level of MTBE has decreased. Cis-1, 2-Dichloroethene increased from ND to 1.77J (estimated value) in MWR-102 during the Fourth Quarter. Chlorobenzene decreased from 7.35 ppb to 5.48 ppb in monitoring well MW-106 for the 2019 Fourth Quarter and is consistent with periodic low-level detections during eight (8) Quarters of post-remediation groundwater monitoring results.

It should be noted that the majority of the VOCs detected during the RI event were estimated values and or detected in the blank samples. These results establish a trend for periodic low levels of VOCs below standards or at levels that slightly exceed standards in samples from MWR-102 and MW-106. Therefore, VOCs are a secondary COC for post-remediation groundwater monitoring based on low levels and lack of frequency of detections. A copy of the laboratory report for this event is presented in Appendix 4.

Quality Control Sample Results

A duplicate sample was collected from MW-107. This duplicate sample was MW-10X and analyzed for Metals, SVOCs and VOCs. The results for this duplicate sample are consistent with the levels detected in sample MW-107. Matrix spike and matrix spike duplicates samples were collected from monitoring well MWR-102. An aqueous trip blank sample was provided by the laboratory for VOCs analysis. The results for the trip blank sample were ND, see Appendix 4.

GROUNDWATER QUALITY SUMMARY

Overall, concentrations and frequency of detection of Metals, SVOCs and VOCs are in a general decreasing trend based on Quarterly groundwater monitoring results at the end of eight (8) Quarterly monitoring events compared to July 27, 2009 RI groundwater levels. This decrease represents an expected trend towards lower concentrations due to the installation of the site-wide cover system and storm water collections system that reduces infiltration of runoff and less contact of overburden groundwater with historic fill materials below the cover system that are the source of these contaminants. The following conclusions were made based on these results:

Elevated levels of heavy metals detected during the July 2009 RI event have been significantly reduced to levels below NYSDEC groundwater standards;

Levels of Iron, Manganese, and Sodium have been reduced and exceed groundwater standards;

Metals are considered a COC in the overburden groundwater media as stated in the FER;

Low levels of SVOCs previously detected in groundwater samples during the 2009 RI event have been reduced to levels that are ND and below standards.

SVOCs are a secondary COC for post-remediation groundwater monitoring based on low levels and lack of frequency of detections;

Low levels of VOCs previously detected in groundwater samples during the RI event have been reduced to levels that are ND in the last eight (8) quarterly groundwater sampling events, essentially unchanged and below NYSDEC groundwater standards;

VOCs are a secondary COC for post-remediation groundwater monitoring based on low levels and lack of frequency of detections;

Levels in the bedrock groundwater samples are generally lower levels than detections for the same compounds in the overburden groundwater samples; and

The remedy is effective based on the groundwater sampling results.

7.0 OPERATION & MAINTENANCE COMPLIANCE

Operation and maintenance activities were completed at the Site and include inspections of the EC and some repairs to the pavement surface of the cover system. The Annual EC/IC Inspection was completed on January 14, 2020 to assess the general condition of the Site as well as conditions of the cover system. A summary of the conditions and recommendations is provided below.

The following recommendations were noted during the Annual EC Inspection. Overall, all the EC are functional and IC in place for protection of human health and the environment. The following action items for maintenance and repairs were noted from the Annual EC inspection on January 14, 2020:

1. Make repairs to minor potholes/cracks in the existing roadway Cover Type 2 installed in 1998. Asphalt patches required to match material and elevation of existing pavement surface during 2020. Crack sealer needs to be applied to Cover Type 2 areas (pavement roadway areas installed in 1998) where cracking has developed.
2. Remove some vegetation that includes weeds along the fencing of the back lot. It is recommended to manually remove vegetation in place rather than use of herbicides (weed killer).
3. During 2020, repair site security fencing in areas where damaged (dented inward).
4. Make repairs and replace the concrete surface seal and steel well box at monitoring well MW-101 and place a new well cap on MW-103.
5. Bergmann engineer to coordinate these repairs during 2020.

Maintaining the integrity and effectiveness of the EC is based on the results of inspections when needed and the required annual inspections to provide recommendations for making repairs to the cover system as necessary to correct the effects of weathering, settlement, subsidence, erosion, or other events, and preventing run-on and run-off from eroding the cover system.

8.0 CONCLUSIONS AND RECOMMENDATIONS

8.1 COMPLIANCE

The requirements dictated in the SMP regarding IC/EC's and the Monitoring Plan were met during the reporting period. The repairs to the cover system did not compromise the integrity of the protectiveness of this EC. The repairs should be made before the end of 2020 to ensure continued integrity of the cover system.

8.2 PERFORMANCE AND EFFECTIVENESS OF REMEDY

An evaluation of the components of the SMP during this reporting period indicates that, as of the end date of this report, the IC/EC controls were protective of human health and the environment. Levels of COC in post-remediation groundwater samples have been significantly reduced. Implementation of the monitoring plan sufficiently complied with performance of the remedy.

8.3 RECOMMENDATIONS FOR FUTURE PRR

Since, residual contamination remains at the site, applicable site management requirements should be continued. However, since residual contamination at the site is considered low level and or below groundwater standards and has been documented in post-remediation groundwater samples to remain consistent or decreasing over time, it is recommended that Quarterly groundwater monitoring activities be evaluated for potential termination based on eight (8) Quarterly monitoring results completed during 2018 and 2019.

8.4 POTENTIAL CHANGE IN USE

There is no potential change in use planned for this Site. A future sale of the site requires a 60-Day Advance Notification of Transfer of Ownership as required by 6NYCRR Part 375-1.11(d) and 375-1.9(f).

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TABLES

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TABLE 1
2019 Groundwater Elevations Summary
Post-Remediation Quarterly Groundwater Monitoring
April 29,2019 through April 29, 2020
Volunteers of America
Back Lot Site No. C828126
Rochester, New York

Well Name	Total Depth (ft)	Ref. Elev.	Depth to Water 07/27/2009	GW Elev. 07/2009	Depth to Water 4/2/2019	GW Elev. 4/2/2019	Depth to Water 6/28/2019	GW Elev. 6/28/2019	Depth to Water 10/4/2019	GW Elev. 10/4/2019	Depth to Water 1/3/2020	GW Elev. 1/3/2020
MW-101	30.0	481.89	24.48	457.41	15.78	466.11	19.74	462.15	21.49	460.40	21.01	460.88
MWR-101	54.5	481.84	24.80	457.04	19.58	462.26	21.10	460.74	21.95	459.89	21.55	460.29
MW-102	31.0	490.61	23.50	466.59	22.24	468.37	22.67	467.94	23.98	466.18	23.45	467.16
MWR-102	54.0	490.16	31.69	458.47	26.80	463.36	28.37	461.79	29.20	460.96	28.71	461.45
MW-103	44.0	486.34	43.14	443.34	33.06	453.28	36.64	449.70	39.53	446.81	39.03	447.31
MW-105	28.0	483.85	18.41	465.72	17.93	465.92	18.32	465.53	18.73	465.12	18.18	465.67
MW-106	32.0	483.53	25.58	457.59	15.85	467.68	20.56	462.97	22.49	461.04	21.98	461.55
MW-107	44.0	485.17	--	--	29.81	455.36	32.93	452.24	34.92	450.25	34.44	450.73

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TABLE 2
2019 Groundwater Sample Analysis Summary
Metals
Post-Remediation
Volunteers of America of Upstate New York
214 Lake Avenue Rochester, New York

Metals Page 1 of 4	VOAMW-101 (7/27/09)	VOAMW-101 (4/2/19) 1st Quarter 2019	VOAMW-101 (6/27/19) 2nd Quarter 2019	VOAMW R-101 (7/27/09)	VOAMWR-101 (4/2/19) 1st Quarter 2019	VOAMWR-101 (6/27/19) 2nd Quarter 2019	VOAMW-102 (7/27/09)	VOAMW-102 (4/2/19) 1st Quarter 2019	VOAMW-102 (6/27/19) 2nd Quarter 2019	VOAMW R-102 (7/27/09)	VOAMWR-102 (4/2/19) 1st Quarter 2019	VOAMWR-102 (6/27/19) 2nd Quarter 2019	VOAMW-103 (7/27/09)	VOAMW-103 (4/2/19) 1st Quarter 2019	VOAMW-103 (6/27/19) 2nd Quarter 2019	NYSDEC 703.5 Standard
Aluminum	74,700	<100ND	83.6J	120B	88.7J	8,210	19,400	<100ND	454	770	<100ND	<100ND	31,700	86.2J	118	-
Antimony	**10B**	<60ND	<60 ND	<60ND	<60 ND	<60 ND	0.57ND	<60ND	<60ND	<60ND	<60ND	<60ND	**142**	<60ND	<60ND	3
Arsenic	**144**	<10ND	<10ND	<10ND	<10ND	10.9	13.5	<10ND	13.5	<10ND	<10ND	<10ND	**99.2**	<10ND	<10ND	25
Barium	**1,840**	169	135	20B	104	<100ND	457	613	925	60B	76.8J	73.3J	**1,660**	129	191	1,000
Beryllium	6.0	<5ND	<5ND	<5ND	<5ND	<5ND	0.84B	<5ND	<5ND	<5ND	<5ND	<5ND	3.8B	<5ND	<5ND	-
Cadmium	**5.6**	<5ND	<5ND	<5ND	<5ND	<5ND	0.50B	<5ND	<5ND	<5ND	<5ND	<5ND	4.7B	<5ND	<5ND	5
Calcium	381,000	108,000	111,000	222,000	65,200	7,390	269,000	518,000	585,000	24,100	108,000	102,000	368,000	108,000	107,000	-
Chromium	**229**	<10ND	11.6	<10ND	<10ND	13.0	25.1	<10ND	<10ND	4B	<10ND	<10ND	**121**	<10ND	<10ND	50
Cobalt	60	<50ND	<50ND	<50ND	<50ND	<50ND	5.0B	<50ND	<50ND	50ND	<50ND	<50ND	35.7B	<50ND	<50ND	-
Copper	**2,050**	<40ND	<40ND	5B	<40ND	27.5	55.6	<40ND	<40ND	8B	<20ND	<20ND	**8,840**	21.9J	<40NDJ	200
Iron	**140,000**	**10,900**	**9,320**	220	**306**	**4,120**	**50,900**	**9,720**	**46,900**	**1,300**	**1,210**	<100ND	**80,500**	**2,250**	**9,140**	300
Lead	**14,100**	<10ND	<10ND	5B	<10ND	**44**	**109**	<10ND	<10ND	8B	<10ND	<10ND	**6,600**	6.80	<10ND	25
Magnesium	152,000	27,100	28,300	88,800	20,800	3,850	107,000	165,000	198,000	3,600B	71,500	67,300	84,300	26,000	26,400	-
Manganese	**3,840**	**412**	**587**	78	164	48.6	**1,120**	**770**	**2,070**	14B	131	129	**1,060**	**360**	**412**	300
Mercury	**1.87**	<0.2ND	<0.2ND	0.20B	<0.2ND	<0.2ND	**0.93**	<0.20ND	<0.20ND	0.02B	<0.2ND	<0.2ND	**193**	0.637	0.203	0.7
Nickel	**132**	<40ND	<40ND	<40ND	<40ND	<40ND	13.8B	<40ND	<40ND	<40ND	<40ND	<40ND	**155**	<40ND	<40ND	100
Potassium	23,000	9,230	8,280	12,400	8,460	5,420	33,700	48,700	52,600	4,200B	12,600	11,000	18,000	10,200	8,650	-
Selenium	**11B**	<20ND	<20ND	6B	<20ND	<20ND	1.5ND	<20ND	**18.8J**	35ND	<20ND	<20ND	**11.4B**	<20ND	**11.3J**	10
Silver	16	<10ND	<10ND	<10ND	<10ND	<10ND	2.4B	<10ND	<10ND	<10ND	<10ND	<10ND	12.9	<10ND	<10ND	50
Sodium	**125,000**	**176,000**	**132,000**	**336,000**	**3,020,000**	**340,000E**	**499,000**	**1,590,000**	**1,660,000E**	**102,000**	**305,000**	**308,000**	**188,000**	**114,000**	**132,000**	20,000
Thallium	25ND	<25ND	<25ND	<25ND	<25ND	<25ND	1.3ND	<25ND	21.8J	25ND	<25ND	<25ND	1.3ND	<25ND	<25ND	-
Vanadium	252	<25ND	<25ND	50B	<25ND	17.1	23.3B	<25ND	<25ND	50B	<25ND	<25ND	125	<25ND	<25ND	-
Zinc	3,080	<60ND	<60 ND	143	36.7J	139J	98.8	57.5J	61	915	<60ND	<60ND	4,070	43.8J	52.5J	-

Notes:

1. NA = Not analyzed, ND = Less than laboratory detection limits, J = metal is estimated, - = No standard. **Concentration in bold type indicates detection above New York State Department of Environmental Conservation 703.5 groundwater standards.**
2. Concentrations of metals are expressed in parts per billion (ppb) equivalent to ug/l.
3. Samples collected by GeoQuest Environmental, Inc. on July 27, 2009 (Remedial Investigation) analyzed by Columbia Analytical Services, Rochester, New York (ELAP ID # 10145).
4. Samples collected by Bergmann on April 2, 019 and June 27, 2019 and analyzed by Paradigm Environmental Services, Inc. Rochester, New York (ELAP ID # 10958).
5. NYSDEC groundwater standards 703.5 and June 1998 Division of Technical and Operational guidance series T.O.G.S. 1.1.1 and as amended April 2000.
6. Results shown for July 2009 are from the Remedial Investigation.

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TABLE 2
2019 Groundwater Sample Analysis Summary
Metals
Post Remediation
Volunteers of America of Upstate New York
214 Lake Avenue Rochester, New York

Metals Page 2 of 4	VOAMW-105 (7/27/09)	VOAMW-105 (4/2/19) 1st Quarter 2019	VOAMW-105 (6/27/19) 2nd Quarter 2019	VOAMW-106 (7/27/09)	VOAMW-106 (4/2/19) 1st Quarter 2019	VOAMW-106 (6/27/19) 2nd Quarter 2019	VOAMW-107 (7/27/09)	VOAMW-107 (4/2/19) 1st Quarter 2019	VOAMW-107 (6/27/19) 2nd Quarter 2019	NYSDEC 703.5 Groundwater Standards
Aluminum	170,000	79.6J	<100ND	36,900	72.1J	<100ND	52,100	<100 ND	<100 ND	-
Antimony	60ND	<60 ND	<60 ND	9B	<60 ND	<60 ND	**154**	<60 ND	<60 ND	3
Arsenic	**102**	<10 ND	<10 ND	**44**	<10 ND	<10 ND	**160**	<10 ND	<10 ND	25
Barium	320	<100 ND	<100 ND	790	<100ND	55.5J	**1,370J**	107	90.6J	1,000
Beryllium	8.9	<5 ND	<5 ND	1.6B	<5 ND	<5 ND	<5 ND	<5 ND	<5 ND	-
Cadmium	3.7B	<5 ND	<5 ND	4.5B	<5 ND	<5 ND	**6.2**	<5 ND	<5 ND	5
Calcium	1,820,000	117,000	106,000	229,000	45,200	52,700	393,000	219,000	187,000	-
Chromium	**177**	<10 ND	<10 ND	**118**	<10 ND	<10 ND	**319**	<10 ND	<10 ND	50
Cobalt	74	<50 ND	<50 ND	19B	<50 ND	<50 ND	<50 ND	<50 ND	<50 ND	-
Copper	**204**	<40 ND	<40 ND	**1,040**	<20ND	<20ND	**1,360**	<20 ND	<20 ND	200
Iron	**210,000**	<100 ND	<100 ND	**60,000**	**366**	**448**	**127,000**	**4,310**	**3,810**	300
Lead	**327**	<10 ND	<10 ND	**2,010**	<10ND	<10ND	**4,230**	<10ND	<10ND	25
Magnesium	761,000	128,000	116,000	76,000	10,200	11,900	101,000	30,600	29,300	-
Manganese	**3,810**	48.7	95	**1,690**	26.3	76.9	**1,920**	**418**	**394**	300
Mercury	<0.20ND	<0.20 ND	<0.20 ND	**1.24**	<0.20ND	<0.20ND	**29.2**	<0.2ND	<0.2ND	0.7
Nickel	**171**	<40 ND	<40 ND	57	<40 ND	<40 ND	**209**	<40 ND	<40 ND	100
Potassium	83,500	11,400	9,270	23,200	2,190J	2,350J	20,200J	7,290	6,430	-
Selenium	35ND	<20ND	**14.2J**	12B	<20ND	<20ND	**21.8**	<20ND	<20ND	10
Silver	10ND	<10 ND	<10 ND	10ND	<10 ND	<10 ND	<10 ND	<10 ND	<10 ND	50
Sodium	**58,700**	**94,500**	**88,700**	**351,000**	**25,100**	**34,100**	**178,000**	**56,800**	**54,500M**	20,000
Thallium	25ND	<25 ND	<25 ND	25ND	<25 ND	<25 ND	<10 ND	<25 ND	<25 ND	-
Vanadium	180	<25 ND	<25 ND	81	<25 ND	<25 ND	161	<25 ND	<25 ND	-
Zinc	163	<60 ND	49.4J	1,500	<60 ND	<60 ND	3,420	<60 ND	34J	-

Notes:

1. NA = Not analyzed, ND = Less than laboratory detection limits, J = metal is estimated, - = No standard. **Concentration in bold type indicates detection above New York State Department of Environmental Conservation 703.5 groundwater standards.**
2. Concentrations of metals are expressed in parts per billion (ppb) equivalent to ug/l.
3. Samples collected by GeoQuest Environmental, Inc. on July 27, 2009 (Remedial Investigation) and analyzed by Columbia Analytical Services, Rochester, New York (ELAP ID # 10145).
4. Samples collected by Bergmann on April 2, 2019 and June 27, 2019 and analyzed by Paradigm Environmental Services, Inc. Rochester, New York (ELAP ID # 10958).
5. NYSDEC groundwater standards 703.5 and June 1998 Division of Technical and Operational guidance series T.O.G.S. 1.1.1 and as amended April 2000.
6. M= Matrix spike recoveries outside QC limits. Matrix bias indicated.

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TABLE 2
2019 Groundwater Sample Analysis Summary
Metals
Post-Remediation
Volunteers of America of Upstate New York
214 Lake Avenue Rochester, New York

Metals Page 3 of 4	VOA MW-101 (7/27/09)	VOA MW-101 (10/4/19) 3rd Quarter 2019	VOA MW-101 (1/3/20) 4th Quarter 2019	VOA MWR-101 (7/27/09)	VOA MWR-101 (10/4/19) 3rd Quarter 2019	VOA MWR-101 (1/3/20) 4th Quarter 2019	VOA MW-102 (7/27/09)	VOA MW-102 (10/4/19) 3rd Quarter 2019	VOA MW-102 (1/3/20) 4th Quarter 2019	VOA MWR-102 (7/27/09)	VOA MWR-102 (10/4/19) 3rd Quarter 2019	VOA MWR-102 (1/3/20) 4th Quarter 2019	VOA MW-103 (7/27/09)	VOA MW-103 (10/4/19) 3rd Quarter 2019	VOA MW-103 (1/3/20) 4th Quarter 2019	NYSDEC 703.5 Standard
Aluminum	74,700	1,170	<100ND	120B	3,490	1,350	19,400	586	<100ND	770	<100ND	<100ND	31,700	94.8J	<100ND	-
Antimony	**10B**	<60 ND	<60 ND	<60ND	<60 ND	<60 ND	0.57ND	33.7J	<60ND	<60ND	<60ND	<60ND	**142**	<60ND	<60ND	3
Arsenic	**144**	<10ND	<10ND	<10ND	<10ND	<10ND	13.5	<10ND	<10ND	<10ND	<10ND	<10ND	**99.2**	<10ND	<10ND	25
Barium	**1,840**	155	157	20B	<100ND	<100ND	457	973	696	60B	66.4J	69.7J	**1,660**	242	277	1,000
Beryllium	6.0	<5ND	<5ND	<5ND	<5ND	<5ND	0.84B	<5ND	<5ND	<5ND	<5ND	<5ND	3.8B	<5ND	<5ND	-
Cadmium	**5.6**	<5ND	<5ND	<5ND	<5ND	<5ND	0.50B	<5ND	<5ND	<5ND	<5ND	<5ND	4.7B	<5ND	<5ND	5
Calcium	381,000	116,000	144,000	222,000	6,460	18,300	269,000	63,900	543,000	24,100	101,000	106,000	368,000	127,000	180,000	-
Chromium	**229**	<10ND	<10ND	<10ND	<10ND	<10ND	25.1	<10ND	<10ND	4B	<10ND	<10ND	**121**	<10ND	<10ND	50
Cobalt	60	<50ND	<50ND	<50ND	<50ND	<50ND	5.0B	<50ND	<50ND	50ND	<50ND	<50ND	35.7B	<50ND	<50ND	-
Copper	**2,050**	32.9J	<20ND	5B	<40ND	<40ND	55.6	<40ND	<40ND	8B	<40ND	<40ND	**8,840**	127	<20ND	200
Iron	**140,000**	**10,500**	**8,910**	220	**1,830**	**984**	**50,900**	**53,900**	**26,100**	**1,300**	<100ND	<100ND	**80,500**	**3,940**	**9,350**	300
Lead	**14,100**	**173**	<10ND	5B	20.4	<10ND	**109**	9.28J	<10ND	8B	<10ND	<10ND	**6,600**	7.96J	<10ND	25
Magnesium	152,000	27,600	34,800	88,800	2,050J	3,890	107,000	183,000	134,000	3,600B	65,100	66,100	84,300	28,600	39,000	-
Manganese	**3,840**	**534**	**577**	78	27.9	12.3J	**1,120**	**1,700**	**1,250**	14B	<15ND	161	**1,060**	278	**470**	300
Mercury	**1.87**	**3.15**	<0.2ND	0.20B	0.174J	<0.2ND	**0.93**	<0.20ND	<0.20ND	0.02B	<0.2ND	<0.2ND	**193**	0.278	<0.2ND	0.7
Nickel	**132**	<40ND	<40ND	<40ND	<40ND	<40ND	13.8B	<40ND	<40ND	<40ND	<40ND	<40ND	**155**	<40ND	<20ND	100
Potassium	23,000	8,290	8,700	12,400	2,580	2,470J	33,700	47,700	42,800	4,200B	10,500	9,710	18,000	8,660	10,200	-
Selenium	**11B**	<20ND	<20ND	6B	<20ND	<20ND	1.5ND	<20ND	<20ND	35ND	<20ND	<20ND	**11.4B**	<20ND	<20ND	10
Silver	16	<10ND	<10ND	<10ND	<10ND	<10ND	2.4B	<10ND	<10ND	<10ND	<10ND	<10ND	12.9	<10ND	<10ND	50
Sodium	**125,000**	**149,000**	**155,000**	**336,000**	**210,000**	**878,000**	**499,000**	**187,000**	**1,860,000**	**102,000**	**298,000**	**290,000**	**188,000**	**134,000**	**181,000**	20,000
Thallium	25ND	<25ND	<25ND	<25ND	<25ND	<25ND	1.3ND	58.4	54.5	25ND	<25ND	<25ND	1.3ND	<25ND	<25ND	-
Vanadium	252	<25ND	<25ND	50B	<25ND	<25ND	23.3B	<25ND	<25ND	50B	<25ND	<25ND	125	<25ND	<25ND	-
Zinc	3,080	188	<60ND	143	80	61.8	98.8	65	37.5J	915	43.3	<60ND	4,070	235	38.9J	-

Notes:

1. NA = Not analyzed, ND = Less than laboratory detection limits, J = metal is estimated, - = No standard, E = results estimated. **Concentration in bold type indicates detection above New York State Department of Environmental Conservation 703.5 groundwater standards.**
2. Concentrations of metals are expressed in parts per billion (ppb) equivalent to ug/l.
3. Samples collected by GeoQuest Environmental, Inc. on July 27, 2009 (Remedial Investigation) analyzed by Columbia Analytical Services, Rochester, New York (ELAP ID # 10145).
4. Samples collected by Bergmann on October 4, 2019 and January 3, 2020 and analyzed by Paradigm Environmental Services, Inc. Rochester, New York (ELAP ID # 10958).
5. NYSDEC groundwater standards 703.5 and June 1998 Division of Technical and Operational guidance series T.O.G.S. 1.1.1 and as amended April 2000.
6. Results shown for July 2009 are from the Remedial Investigation.

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TABLE 2
2019 Groundwater Sample Analysis Summary
Metals
Post-Remediation
Volunteers of America of Upstate New York
214 Lake Avenue Rochester, New York

Metals Page 4 of 4	VOA MW-105 (7/27/09)	VOA MW-105 (10/4/19) 3rd Quarter 2019	VOA MW-105 (1/3/20) 4th Quarter 2019	VOA MW-106 (7/27/09)	VOA MW-106 (10/4/19) 3rd Quarter 2019	VOA MW-106 (1/3/19) 4th Quarter 2019	VOA MW-107 (7/27/09)	VOA MW-107 (10/4/19) 3rd Quarter 2019	VOA MW-107 (1/3/20) 4th Quarter 2019	NYSDEC 703.5 Groundwater Standards
Aluminum	170,000	387	9,270	36,900	860	2,780	52,100	<100 ND	<100 ND	-
Antimony	<60 ND	<60 ND	<60 ND	9B	<60 ND	<60 ND	**154**	<60 ND	<60 ND	3
Arsenic	**102**	<10 ND	<10 ND	**44**	<10 ND	<10 ND	**160**	<10 ND	<10 ND	25
Barium	320	<100 ND	<100 ND	790	152	187	**1,370J**	81.9J	111	1,000
Beryllium	8.9	<5 ND	<5 ND	1.6B	<5 ND	<5 ND	<5 ND	<5 ND	<5 ND	-
Cadmium	3.7B	<5 ND	<5 ND	4.5B	<5 ND	<5 ND	**6.2**	<5 ND	<5 ND	5
Calcium	1,820,000	110,000	178,000	229,000	116,000	118,000	393,000	186,000	254,000	-
Chromium	**177**	<10 ND	10.8	**118**	<10 ND	5.11J	**319**	<10 ND	<10 ND	50
Cobalt	74	<50 ND	<50 ND	19B	<50 ND	<50 ND	<50 ND	<50 ND	<50 ND	-
Copper	**204**	<40 ND	<40 ND	**1,040**	<40ND	25.3	**1,360**	<40 ND	<40 ND	200
Iron	**210,000**	**1,010**	**13,000**	**60,000**	**3,740**	**6,310**	**127,000**	**3,300**	**4,540**	300
Lead	**327**	<10 ND	13.6	**2,010**	14.9	**55.4**	**4,230**	<10ND	<10ND	25
Magnesium	761,000	106,000	128,000	76,000	30,700	31,900	101,000	33,400	40,500	-
Manganese	**3,810**	79.3	236	**1,690**	**405**	**403**	**1,920**	**360**	**397**	300
Mercury	<0.20ND	<0.20 ND	<0.20 ND	**1.24**	<0.20ND	0.363	**29.2**	<0.2ND	<0.2ND	0.7
Nickel	**171**	<40 ND	<40 ND	57	<40 ND	<40 ND	**209**	<40 ND	<40 ND	100
Potassium	83,500	9,970	13,200	23,200	5,800	9,630	20,200J	7,210	8,280	-
Selenium	<20ND	<20ND	<20ND	12B	<20ND	<20ND	**21.8**	<20ND	<20ND	10
Silver	<10 ND	<10 ND	<10 ND	<10 ND	<10 ND	<10 ND	<10 ND	<10 ND	<10 ND	50
Sodium	**58,700**	**87,300**	**78,700**	**351,000**	**109,000**	**120,000**	**178,000**	**63,100M**	**66,300**	20,000
Thallium	<25 ND	<25 ND	<25 ND	<25 ND	<25 ND	<25 ND	<25 ND	<25 ND	<25 ND	-
Vanadium	180	<25 ND	13.7J	81	<25 ND	<25 ND	161	<25 ND	<25 ND	-
Zinc	163	<60 ND	138	1,500	1,800	133	3,420	51.3J	33.8J	-

Notes:

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2. Concentrations of metals are expressed in parts per billion (ppb) equivalent to ug/l.
3. Samples collected by GeoQuest Environmental, Inc. on July 27, 2009 (Remedial Investigation) and analyzed by Columbia Analytical Services, Rochester, New York (ELAP ID # 10145).
4. Samples collected by Bergmann on October 4, 2019 and January 3, 2020 and analyzed by Paradigm Environmental Services, Inc. Rochester, New York (ELAP ID # 10958).
5. NYSDEC groundwater standards 703.5 and June 1998 Division of Technical and Operational guidance series T.O.G.S. 1.1.1 and as amended April 2000.

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FIGURES

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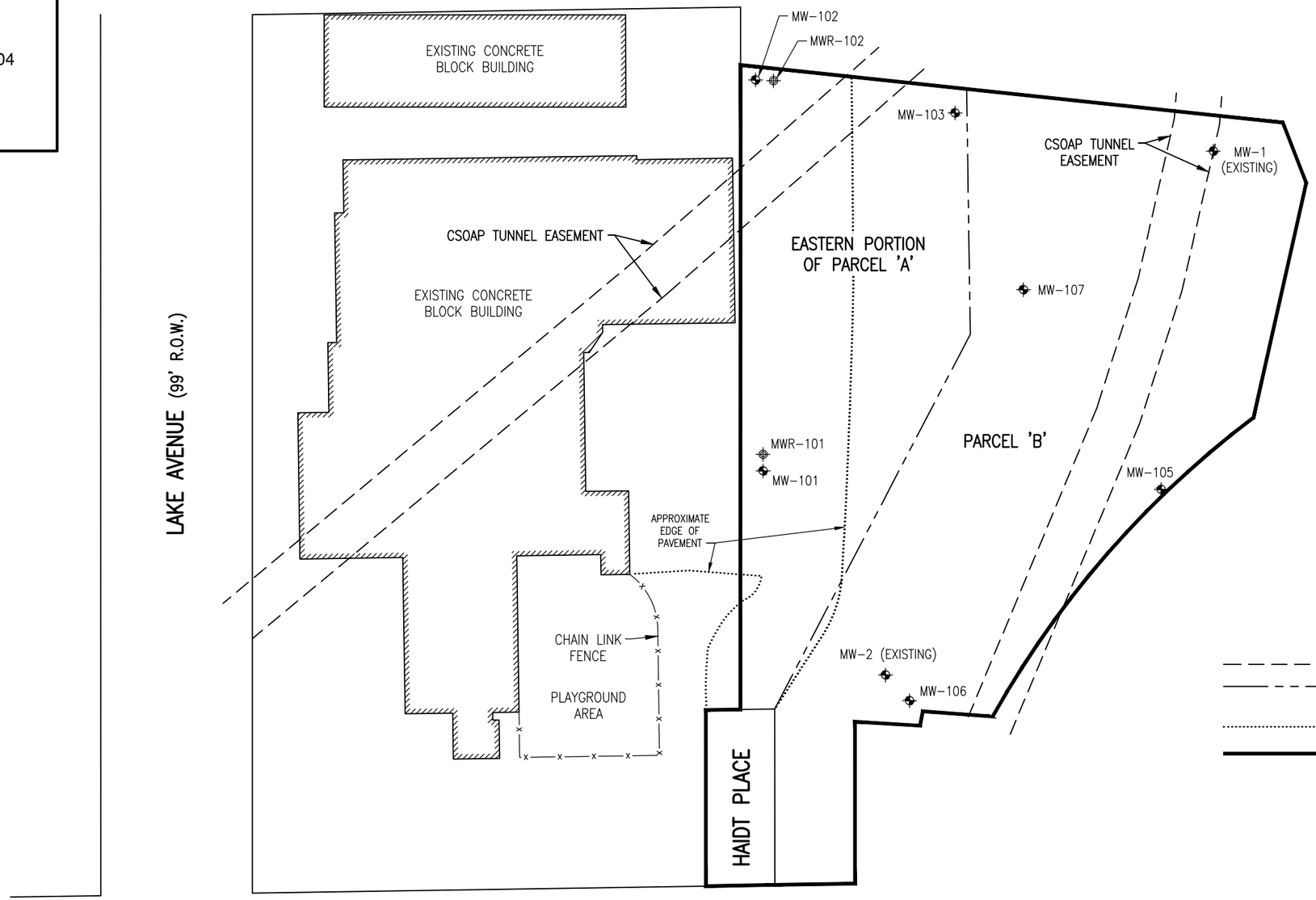
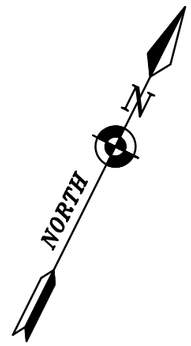
POST REMEDIATION GROUNDWATER MONITORING
VOLUNTEERS OF AMERICA
BACK LOT SITE
NYSDEC SITE No. C828126





LEGEND

- CSOAP EASEMENT LINE
- EAST BOUNDARY OF PARCEL 'A' AND WEST BOUNDARY OF PARCEL 'B'
- APPROXIMATE EDGE OF PAVEMENT
- PROJECT SITE BOUNDARY
- MW-101 — MONITOR WELL LOCATION (OVERBURDEN)
- MWR-101 — MONITOR WELL LOCATION (BEDROCK)

NOTES:

1) EXISTING FEATURES, EXISTING TESTING AND SAMPLING INFORMATION WERE OBTAINED FROM MAPS PREPARED BY BERGMANN ASSOCIATES, PC. TITLED "VOLUNTEERS OF AMERICA, WESTERN NEW YORK, NEW FACILITY, 214 LAKE AVENUE" BERGMANN PROJECT #3091.00, DATED FEB. 10, 1998.

2) COMBINED SEWER OVERFLOW ABATEMENT PROGRAM (CSOAP), MAINTAINED BY MONROE COUNTY.

SCALE BAR
1" = 80'

WELL LOCATION MAP

FIGURE 1

I:\VOA\012859.01 VOA - 2019 GW MONITORING & REPORTING\3.0 Design\3.8 Reports\PRR 2019 5-21-20\Figures\Figure 1.dwg

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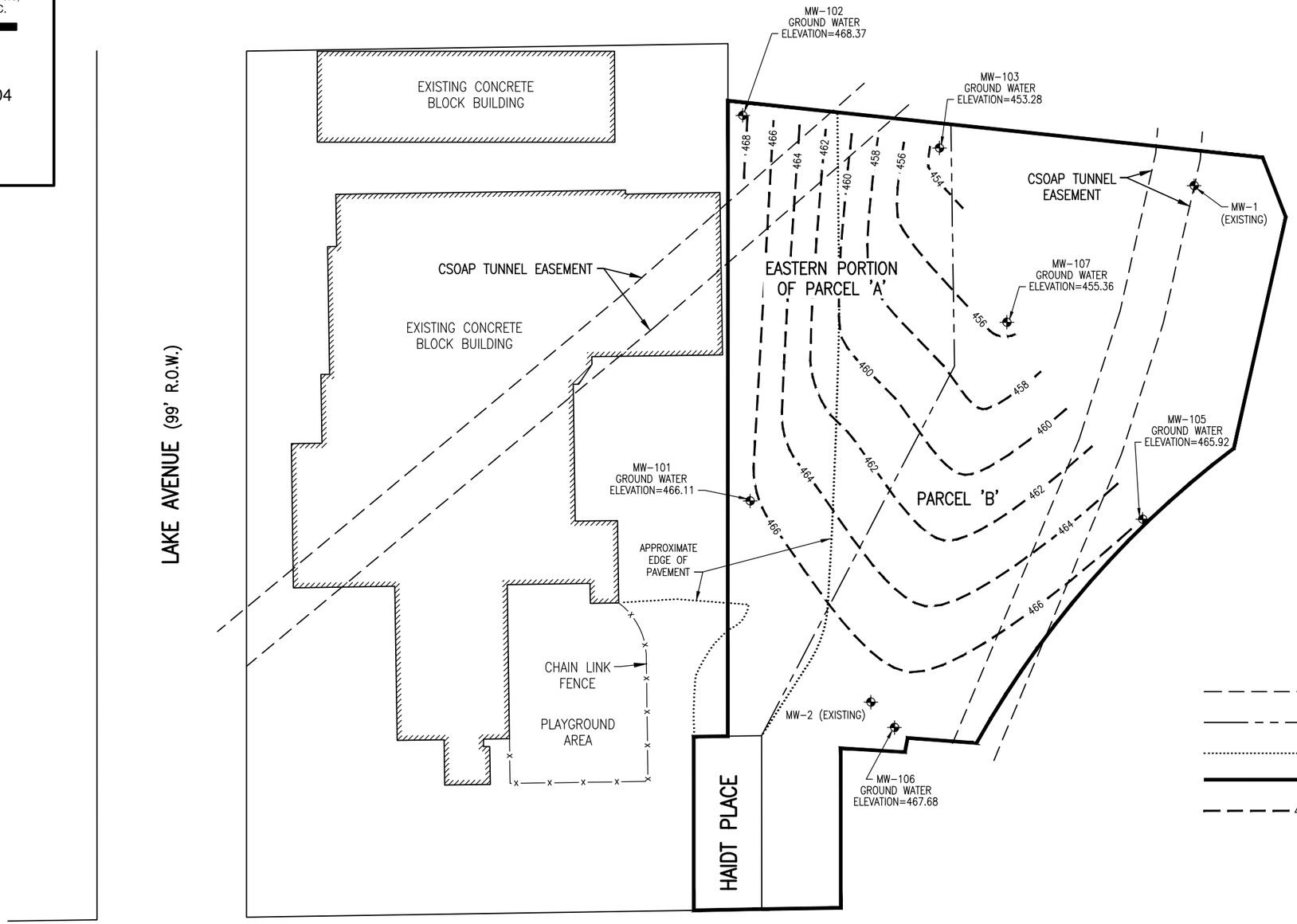

LEGEND

- CSOAP EASEMENT LINE
- EAST BOUNDARY OF PARCEL 'A' AND WEST BOUNDARY OF PARCEL 'B'
- APPROXIMATE EDGE OF PAVEMENT
- PROJECT SITE BOUNDARY
- 462 GROUNDWATER CONTOUR LINE (2' INTERVAL)
- MW-101 MONITOR WELL LOCATION (OVERBURDEN)
- APPROXIMATE GROUNDWATER FLOW DIRRECTION

NOTES:

1) EXISTING FEATURES, EXISTING TESTING AND SAMPLING INFORMATION WERE OBTAINED FROM MAPS PREPARED BY BERGMANN ASSOCIATES, PC. TITLED "VOLUNTEERS OF AMERICA, WESTERN NEW YORK, NEW FACILITY, 214 LAKE AVENUE" BERGMANN PROJECT #3091.00, DATED FEB. 10, 1998.

2) COMBINED SEWER OVERFLOW ABATEMENT PROGRAM (CSOAP), MAINTAINED BY MONROE COUNTY.

0 80 160 240 FT

SCALE BAR
1" = 80'

WATER TABLE MAP (OVERBURDEN) APRIL 2, 2019

FIGURE 2

I:\VOA\012859.01 VOA - 2019 GW MONITORING & REPORTING\3.0 Design\3.8 Reports\PRR 2019 5-21-20\Figures\Figure 2.dwg

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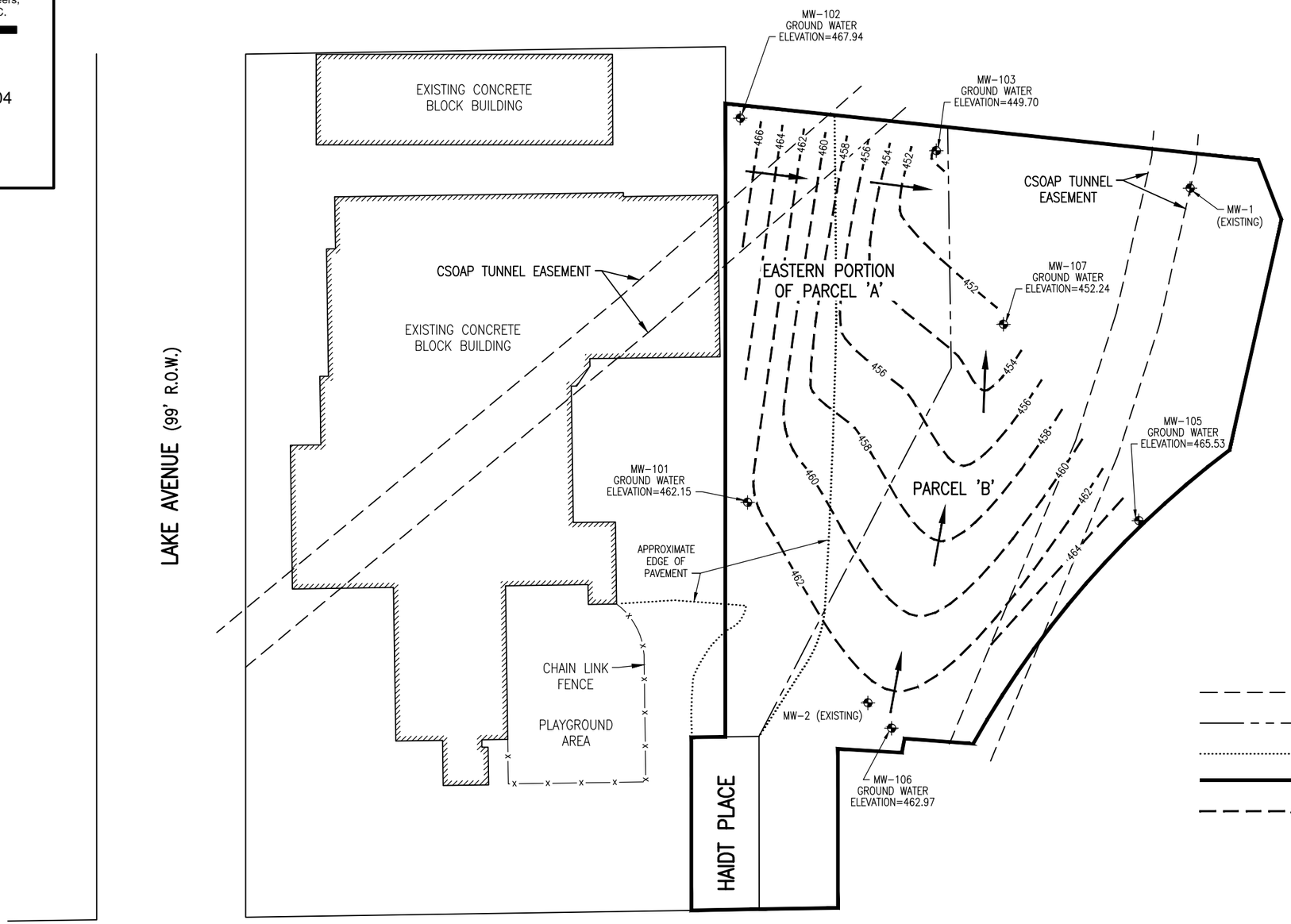

LEGEND

- CSOAP EASEMENT LINE
- EAST BOUNDARY OF PARCEL 'A' AND WEST BOUNDARY OF PARCEL 'B'
- APPROXIMATE EDGE OF PAVEMENT
- PROJECT SITE BOUNDARY
- 462 — GROUNDWATER CONTOUR LINE (2' INTERVAL)
- MW-101 — MONITOR WELL LOCATION (OVERBURDEN)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

NOTES:

1) EXISTING FEATURES, EXISTING TESTING AND SAMPLING INFORMATION WERE OBTAINED FROM MAPS PREPARED BY BERGMANN ASSOCIATES, PC. TITLED "VOLUNTEERS OF AMERICA, WESTERN NEW YORK, NEW FACILITY, 214 LAKE AVENUE" BERGMANN PROJECT #3091.00, DATED FEB. 10, 1998.

2) COMBINED SEWER OVERFLOW ABATEMENT PROGRAM (CSOAP), MAINTAINED BY MONROE COUNTY.

0 80 160 240 FT

SCALE BAR
1" = 80'

WATER TABLE MAP (OVERBURDEN) JUNE 27, 2019

FIGURE 3

I:\VOA\012859.01 VOA - 2019 GW MONITORING & REPORTING\3.0 Design\3.8 Reports\PRR 2019 5-21-20\Figures\Figure 3.dwg

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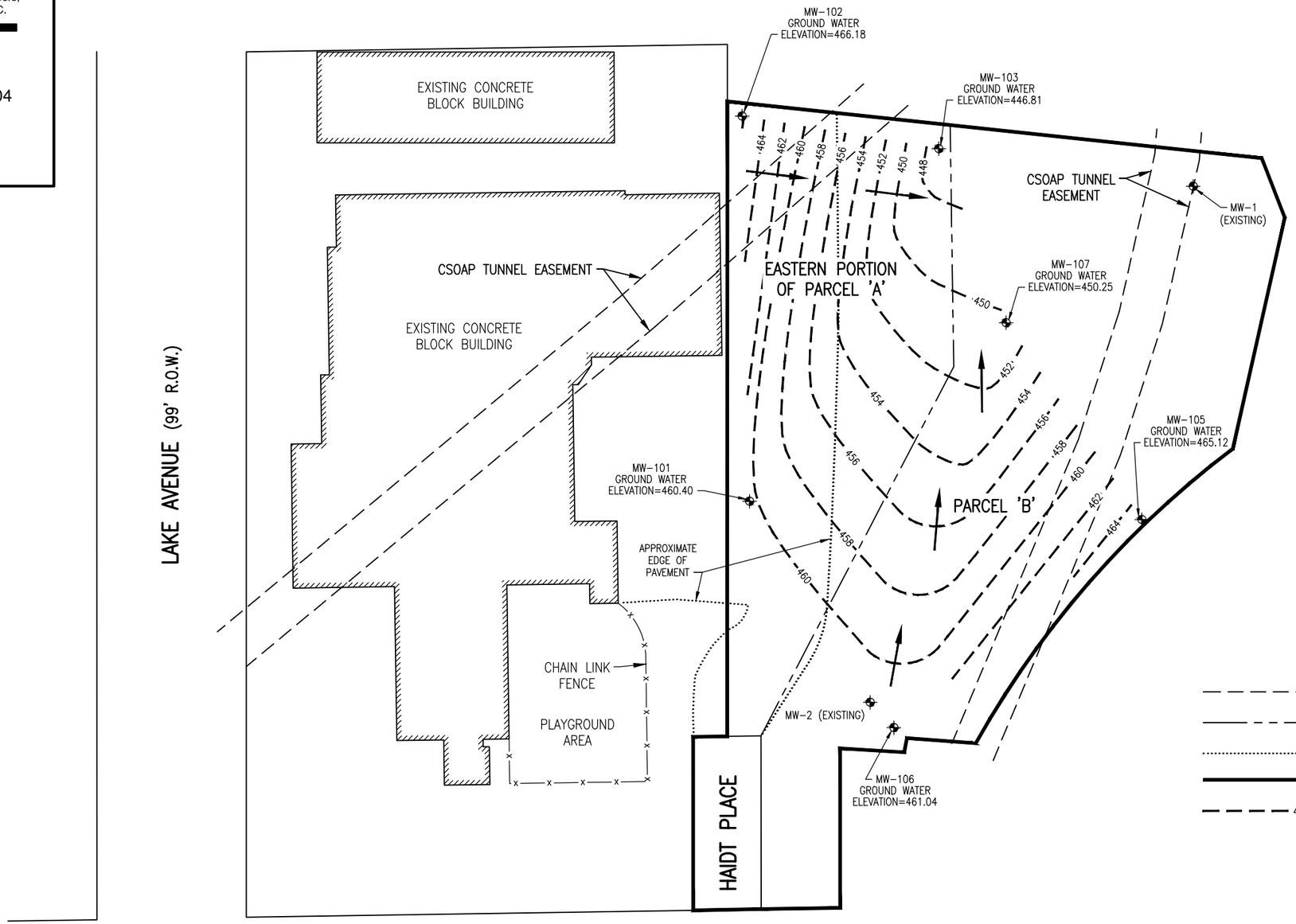

NOTES:

1) EXISTING FEATURES, EXISTING TESTING AND SAMPLING INFORMATION WERE OBTAINED FROM MAPS PREPARED BY BERGMANN ASSOCIATES, PC. TITLED "VOLUNTEERS OF AMERICA, WESTERN NEW YORK, NEW FACILITY, 214 LAKE AVENUE" BERGMANN PROJECT #3091.00, DATED FEB. 10, 1998.

2) COMBINED SEWER OVERFLOW ABATEMENT PROGRAM (CSOAP), MAINTAINED BY MONROE COUNTY.

0 80 160 240 FT

SCALE BAR
1" = 80'

WATER TABLE MAP (OVERBURDEN) OCTOBER 4, 2019

FIGURE 4

I:\VOA\012859.01 VOA - 2019 GW MONITORING & REPORTING\3.0 Design\3.8 Reports\PRR 2019 5-21-20\Figures\Figure 4.dwg

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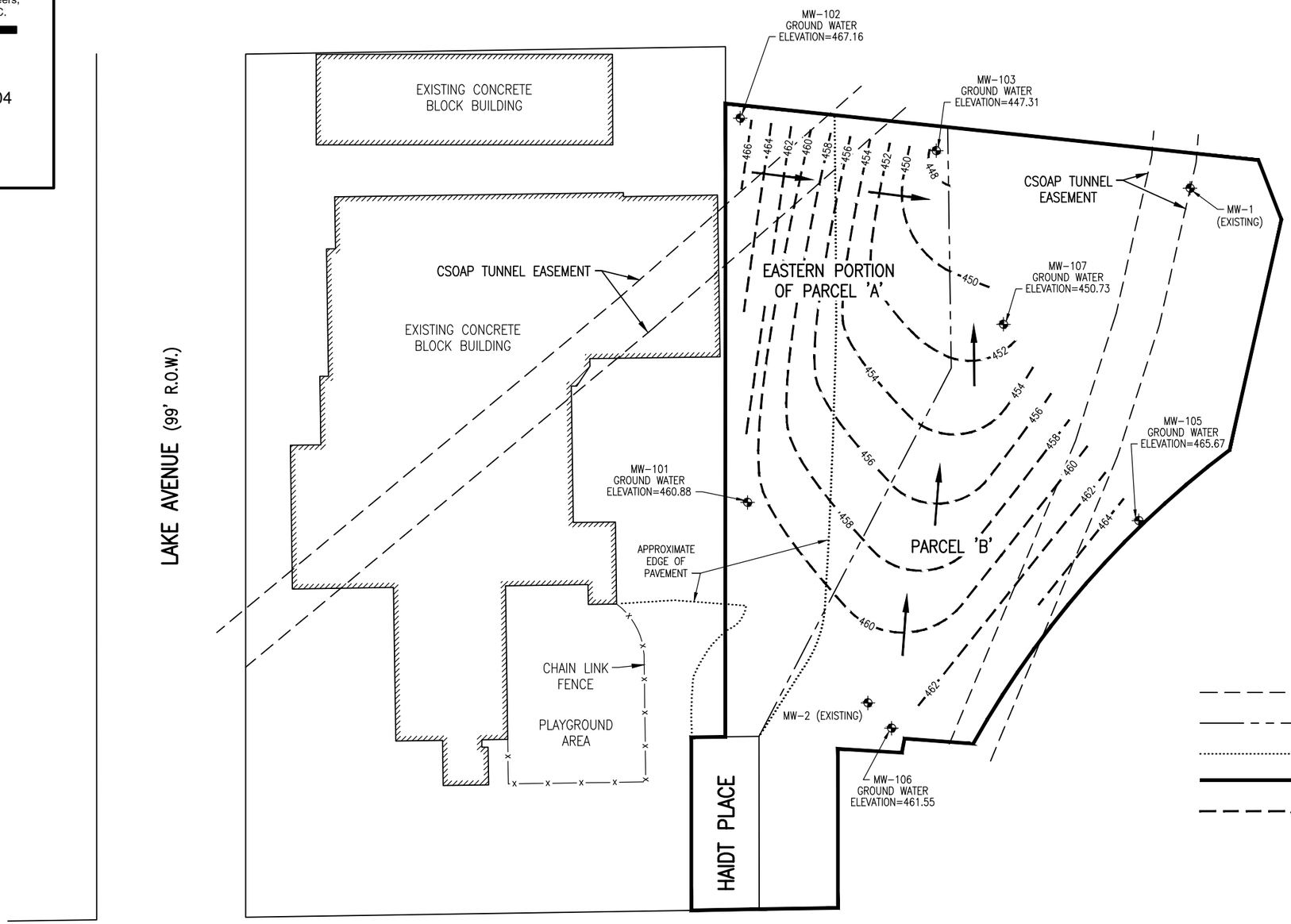
NYSDEC SITE No. C828126



LEGEND

- CSOAP EASEMENT LINE
- EAST BOUNDARY OF PARCEL 'A' AND WEST BOUNDARY OF PARCEL 'B'
- APPROXIMATE EDGE OF PAVEMENT
- PROJECT SITE BOUNDARY
- 462 — GROUNDWATER CONTOUR LINE (2' INTERVAL)
- MW-101 — MONITOR WELL LOCATION (OVERBURDEN)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

NOTES:

1) EXISTING FEATURES, EXISTING TESTING AND SAMPLING INFORMATION WERE OBTAINED FROM MAPS PREPARED BY BERGMANN ASSOCIATES, PC. TITLED "VOLUNTEERS OF AMERICA, WESTERN NEW YORK, NEW FACILITY, 214 LAKE AVENUE" BERGMANN PROJECT #3091.00, DATED FEB. 10, 1998.

2) COMBINED SEWER OVERFLOW ABATEMENT PROGRAM (CSOAP), MAINTAINED BY MONROE COUNTY.

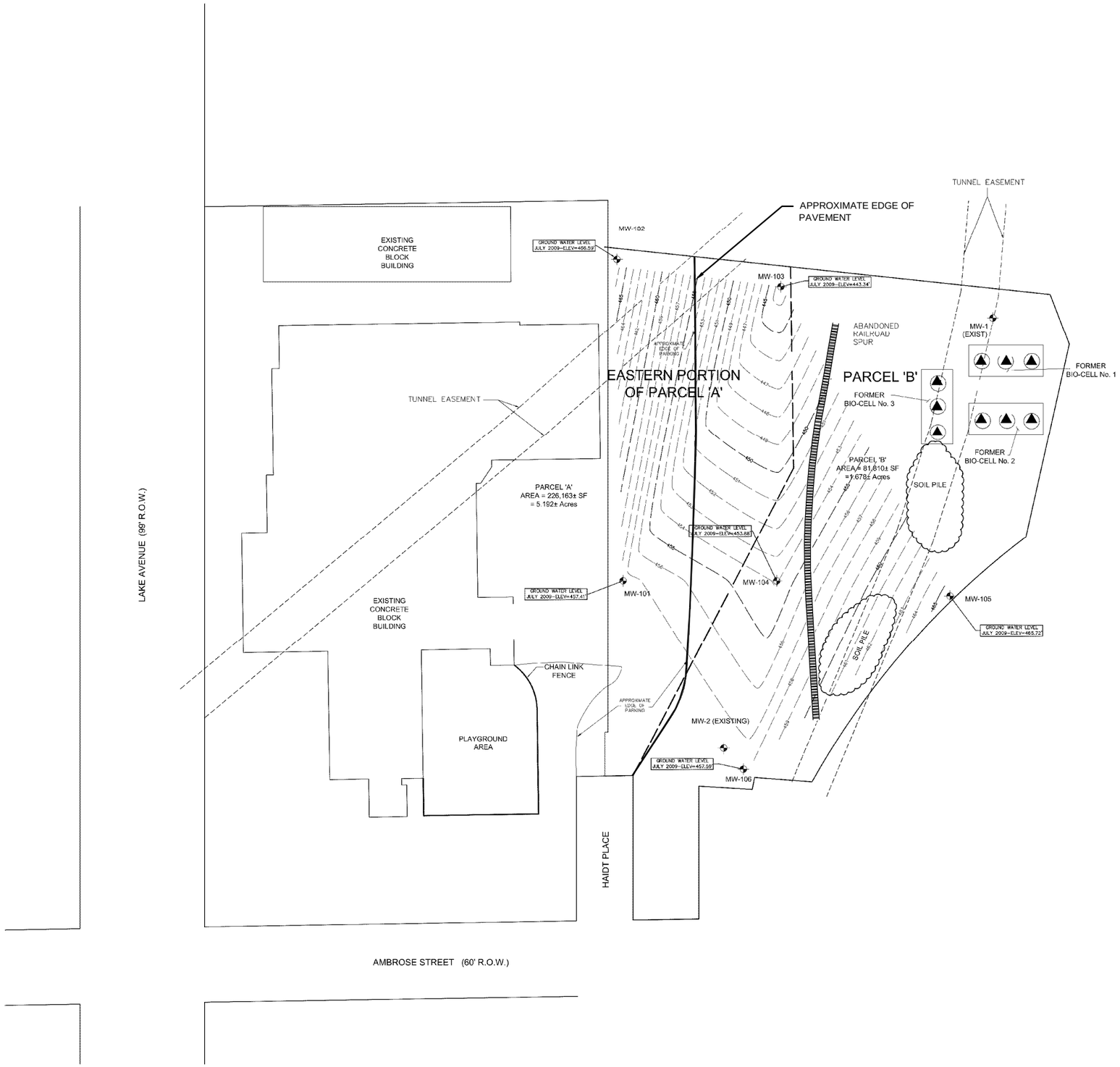
0 80 160 240 FT

SCALE BAR
1" = 80'

WATER TABLE MAP (OVERBURDEN) JANUARY 3, 2020

FIGURE 5

I:\VOA\012859.01 VOA - 2019 GW MONITORING & REPORTING\3.0 Design\3.8 Reports\PRR 2019 5-21-20\Figures\Figure 5.dwg



NORTH

NOTES:

1. GROUNDWATER LEVEL INFORMATION COLLECTED FROM MONITOR WELLS ON JULY 27, 2009.

LEGEND:

- EXISTING BUILDING
- EAST BOUNDARY OF PARCEL 'A' AND WEST BOUNDARY OF PARCEL 'B'
- BIO-CELL
- SOIL PILE
- MW-101 MONITOR WELL LOCATION
- ABANDONED RAILROAD SPUR
- APPROXIMATE EDGE OF PAVEMENT

EXISTING FEATURES, EXISTING TESTING AND SAMPLING INFORMATION WERE OBTAINED FROM MAPS PREPARED BY BERGMANN ASSOCIATES, PC. TITLED 'VOLUNTEERS OF AMERICA, WESTERN NEW YORK, NEW FACILITY, 214 LAKE AVENUE' BERGMANN PROJECT #3091.00, DATED FEB. 10, 1998.

0 40 80 120

APPROXIMATE SCALE IN FEET
1"=40'

GeoQuest

GROUND WATER CONTOUR MAP

JULY 27, 2009
FOR
REMEDIAL INVESTIGATION
EASTERN PORTION OF PARCEL A AND PARCEL B
214 LAKE AVENUE
ROCHESTER, NEW YORK
DECEMBER 15, 2009

FIG. 6

APPENDIX 1

280 E. Broad Street
Rochester, NY 14604

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ARCHITECTS ENGINEERS PLANNERS

February 26, 2020

Ms. Charlotte Theobald
Project Manager
New York State Department of Environmental Conservation
6274 East Avon-Lima Road
Avon, New York 14414

Re: Annual Engineering Controls Inspection Report
Volunteers of America - Back Lot Site
214 Lake Avenue and 18 Ambrose Street
NYSDEC Site # C828126
Rochester, New York

Dear Ms. Theobald:

Bergmann completed an annual inspection of the physical engineering controls (EC) on January 14, 2020. This visual inspection of EC was completed in general accordance with the Maintenance Plan in Appendix 4 of the Site Management Plan (SMP). This annual EC included visual observation for inspection of the following: site-wide engineered cover system (cover system), security fencing, monitoring well condition, and storm water collection system at the Volunteers of America Back Lot Site. The annual inspection of EC was completed in accordance with the requirements of Decision Document and SMP. This inspection is part of maintenance activities related to post-remediation tasks to ensure the integrity of the cover system, security fencing and storm water collection system occupying the area over the remaining contaminated soil and groundwater on-site. At the time of this inspection all the Institutional controls that include the environmental easement were in place as certified in the SMP.

The objectives of the annual inspection are to observe that:

- The cover system is performing the function of properly capping subsurface soils;
- Site storm water collection system is functioning as designed;
- Security fencing is in place and free of significant damage;
- The EC is functioning as intended for protection of human health and the environment.

The cover system over the contaminated Historic fill materials (contaminated soils) and groundwater serve as a barrier to prevent direct human contact with residual soil contamination that might otherwise pose a threat to human health and the environment. The cover system also acts as a partial infiltration barrier to minimize future soil-to-groundwater contamination migration that would further impact groundwater. Based on the future restricted residential or commercial use of the property. The cover system should function as intended unless disturbed. The cover system was installed in the back lot area in 2016 and in the Haidt Place right of way during 2017, existing cover system that is roadway / parking areas was installed in 1998. Therefore, the area for EC is the entire Site, see Figure 4 from the Final Engineering report.

Maintaining the integrity and effectiveness of the EC is based on the results of inspections when needed and the required annual inspections to provide recommendations for making repairs to the cover system as necessary to correct the effects of weathering, settlement, subsidence, erosion, or other events, and preventing run-on and run-off from eroding the cover system. Annual inspection was made on the items noted below and recorded on the

attached inspection forms. This inspection provides recommendations so that maintenance and repairs can be performed before damage occurs that may impact the integrity and effectiveness of the cover system. The EC conditions / issues are noted below based on the initial inspection for elements of the cover system as described below:

Pavement Surface: The entire pavement surface of Cover Type 1 asphalt pavement/millings, including the final (top) surface and side-slopes (pavement millings) was installed in 2016. The surface was inspected for settlement, subsidence, cracks, displacement and presence of vegetation. Cracks and settlement were not observed on Cover Type 1, see photographs. The existing roadway (Cover Type 2) and parking areas that were installed in 1998 as part of the cover system were also inspected for the same conditions. Several areas on the pavement surface of Cover Type 2 are cracked and have potholes that have been repaired during 2018 and 2019, see attached photographs.

Grass Cover: The limited grass cover areas of Cover Type 3 (Landscaped lawn) were inspected for erosion, displacement, vegetation other than grasses. The integrity of the grass landscaped Cover Type 3 in parking lot islands and within curbed / planter areas is in good condition. Areas of Cover Type 3 along the west side of the Haidt place Right of Way is in good condition, see photographs.

Final Cover Surface: The final cover surface was inspected and ponding of water or flat areas was not observed. This inspection was on the day after a rain/snow melt event. There was no apparent settlement, subsidence, erosion, depressions or flat areas. Ponding of water was not observed on the cover system, see photographs.

Erosion Damage Repair: The roadway pavement along Haidt Place has cracks in the asphalt that require repairs by means of sealing. Repairs by placement of asphalt and compacting the material in-kind to design grade/specifications were completed in 2019, see photographs. Sealer on cracks is required in Cover Type 2 areas shown in photographs. The sealer installed during 2016 is in good condition. Follow-up monitoring of the repaired area will be conducted to ascertain the integrity of the repair. Erosion along the west side of the Haidt Place ROW in the landscaped lawn area was not observed, see photographs.

Settlement, Subsidence, and Displacement: Evidence of settlement, subsidence, or displacement of the cover system was not observed, see Photographs.

Cover System Surface: Evidence of ponding water on the cover system (cap surface) was not observed, see photographs.

Groundwater Monitoring System: The groundwater monitoring system was inspected for the general integrity of the wells, well casings and well protective casings during the inspection of the cover system. The steel cover of the protective casing for monitoring well MW-101 was bent into the well during 2018 and repaired for sampling access to this well during 2019. However, the concrete surface seal and steel well box needs to be removed. Then re-installed, see photographs. The following monitoring wells need repairs or new caps:

- MW-101 requires repairs for a new concrete surface seal and new well protective roadway box; and
- MW-103 needs a new well cap.

Storm water Collection System: This inspection was made on the day after a rain/snow melt event. The surface drainage system of the storm water collection system was inspected for erosion, integrity of manholes/catch basins, ponding, and accumulated sediment. The low areas of the cover system pavement surface are designed to route surface run-off to the catch basins of the storm water collection system below the cover system in the

fenced area of the back lot. There was no observed collection of sediments in the catch basins/manholes. Water was observed moving through the manholes. Ponding of water on the surface of cover system was not observed.

Security Fencing: The majority of the Site is fenced to reduce access to the back lot Cover Type 1 area, storm water collection system and monitoring wells. The fence height ranges from 8 foot and 6 foot along the perimeter of this area. The roadway, parking lot areas and grass cover/pavement cover along the Haidt Place right-of way are not fenced. One area of the fence is damaged near the southern end of the back lot area. This fence damage requires repair. Observed that most of the vegetation was removed from the fenced areas along Covers Type 1 of the back lot, see photographs. Three abandoned tires were removed from the fenced area of the back lot and properly disposed by VOA.

Overall, all the EC are functional and IC in place for protection of human health and the environment. The following action items for maintenance and repairs were noted from the Annual EC inspection on January 14, 2020:

1. Make repairs to minor potholes / cracks in the existing roadway Cover Type 2 installed in 1998. Asphalt patches required to match material and elevation of existing pavement surface during 2020. Crack sealer needs to be applied to Cover Type 2 areas (pavement roadway areas installed in 1998) where cracking has developed.
2. Remove some vegetation that includes weeds along the fencing of the back lot. It is recommended to manually remove vegetation in place of use of herbicides (weed killer).
3. During 2020, repair site security fencing in areas where damaged (dented inward).
4. Make repairs and replace the concrete surface seal and steel well box at monitoring well MW-101 and place a new well cap on MW-103.
5. Bergmann engineer to coordinate these repairs during 2020.

If you have questions, please contact me at (607) 333-3120.
Bergmann

Sincerely,

Robert Switala, P. E.

Attachments: Annual Maintenance Inspection Form, Figure 4, and Photographs

Annual Maintenance Inspection Form

Name(s) of Inspectors: ROBERT SWITALA, PE & STEVE DEMEO
Date of Inspection: 1/14/2020
Location of the permeable pavement facility: 18 AMBROSE ST / 214 LAKE AVE
Surface/wearing course type: ASPHALT PAVEMENT, BINDER COURSE
Address or Intersection: _____
Age of permeable pavement facility: COVER TYPE 1 - 3 YRS, 5 MONTHS (BACKLOT) 2 YRS, 9 MONTHS (MAIN PLACE)
COVER TYPE 2 - 21 YEARS
COVER TYPE 3 - 27 MONTHS
Permeable pavement facility area : APPROX. 3 ACRES

Site Sketch (include curbs, islands, trees, north arrow, etc.)
or insert Photographs from inspection date.

SEE ATTACHED PHOTOS AND SITE MAP

Based on visual assessment of the site, answer the following questions and take photographs of the site:
Surface/Wearing Course
1. Are there indications of any of the following on the surface of the permeable pavement facility? (If yes, mark on site sketch)

☐ Excessive sediment
☐ Moss growth
☒ Cracks, trip hazards, or concrete spalling
☐ Trash and debris
☐ Leaf accumulation
☐ Settlement of surface
☐ Other: _____
☐ None

2. Is there ponding on the surface of the permeable pavement? ☐ Yes ☒ No

If yes, describe the potential reasons for ponded water below (leaf or debris build up, non-functional underdrain, groundwater input, illicit connection, inadequate capacity in facility, etc.)

Notes and or Photographs from inspection date.

SEE ATTACHED PHOTOS :

- MW 101 NEEDS NEW CONCRETE COLLAR & CAP TO BE RESET
- EXTENSIVE CRACKING THROUGHOUT COVER TYPE 2 AREA - ASPHALT PAVEMENT INSTALLED IN 1998.
- POT HOLES IN HAUL PLACE/ENTRANCE DRIVE PAVEMENT HAVE BEEN PATCHED AND REPAIRED.
- GRASS COVER TYPE 3 IN GOOD CONDITION - NO BARE SPOTS OBSERVED
- SNOW PILE TO BE REMOVED TO ALLOW GATE TO BE FULLY CLOSED AND LOCKED.
- SITE FENCE IN GOOD CONDITION, REPAIR NEEDED TO AREA WHERE FENCE IS DAMAGED.
- MANHOLES AND CATCH BASINS IN GOOD CONDITION. NO DEBRIS OBSERVED.
- COVER TYPE 1 ASPHALT IN VERY GOOD CONDITION. NO CRACKS, SPALLING OR RAVELING OBSERVED.
- SOME VEGETATION BETWEEN FENCE AND CAP NEEDS TO BE REMOVED.

Inlets/Outlets/Pipes

3. How many inlet pipes are present? ☐ 0 ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☒ 5 ☐ > 5

4. Are any of the inlet pipes clogged? (If yes, mark the location on your site sketch and fill in the boxes below with the cause of the clogging (e.g., debris, sediment, vegetation, etc.) ☒ No ☐ Partially ☐ Completely ☐ NA

5. Are any of the inlet pipes altered from the original design or otherwise in need of maintenance? (If yes, write in reason: frost heave, vandalism, unknown, etc.)

NO - INLETS APPEAR TO BE FUNCTIONING PROPERLY

	Inlet No.	Inlet No.	Inlet No.
Partly clogged			
Completely Clogged			
Reason for Maintenance			

6. Are any overflow, underdrains, raised subsurface overflow pipes, or outlet structures clogged?

☒ No ☐ Partially ☐ Completely ☐ NA

a. If yes, mark the location on your site sketch and fill in the boxes below with the cause of the clogging (e.g., debris, sediment, vegetation, moss, etc.)

b. Are any of the overflow structures altered from the original design or otherwise in need of maintenance? (If yes, write in reason: frost heave, vandalism, unknown) NO

NO INLETS REQUIRE MAINTENANCE OR REPAIR

	Inlet No.	Inlet No.	Inlet No.
Partly clogged			
Completely Clogged			
Reason for Maintenance			

Observation Port (if present)

7. Is water remaining in the storage aggregate longer than anticipated by design after the end of a storm? NO - WATER APPEARS TO BE DRAINING

☐ Yes ☒ No ☐ Unknown

a. If yes, identify potential cause of extended ponding and mark the location of observed extended ponding on your site sketch.

Summary

8. Inspector's Recommendations. When is maintenance needed?

APPLY SEAL COAT TO COVER TYPE 2 ASPHALT PAVEMENT ALONG ENTRANCE ROAD. REPAIR FENCE, REPAIR MONITORING WELL, REMOVE VEGETATION/WEEDS GROWING NEAR COVER TYPE 1.

☐ Immediately
☐ Within a month or two
☒ Within a year
☐ No sign that any maintenance is required

9. Summarize the results of this inspection and write any other observations in the box below Summary and other observations or Photographs from inspection date.

SEE ATTACHED PHOTOS AND INSPECTION LETTER

FINAL ENGINEERING REPORT
VOLUNTEERS OF AMERICA
BACK LOT SITE
NYSDEC SITE No. C828126

BERGMANN ASSOCIATES
Bergmann Associates, Architects, Engineers, Landscape Architects & Surveyors, D.P.C.

280 East Broad Street
Suite 200
Rochester, New York 14604
office: 585.232.5135
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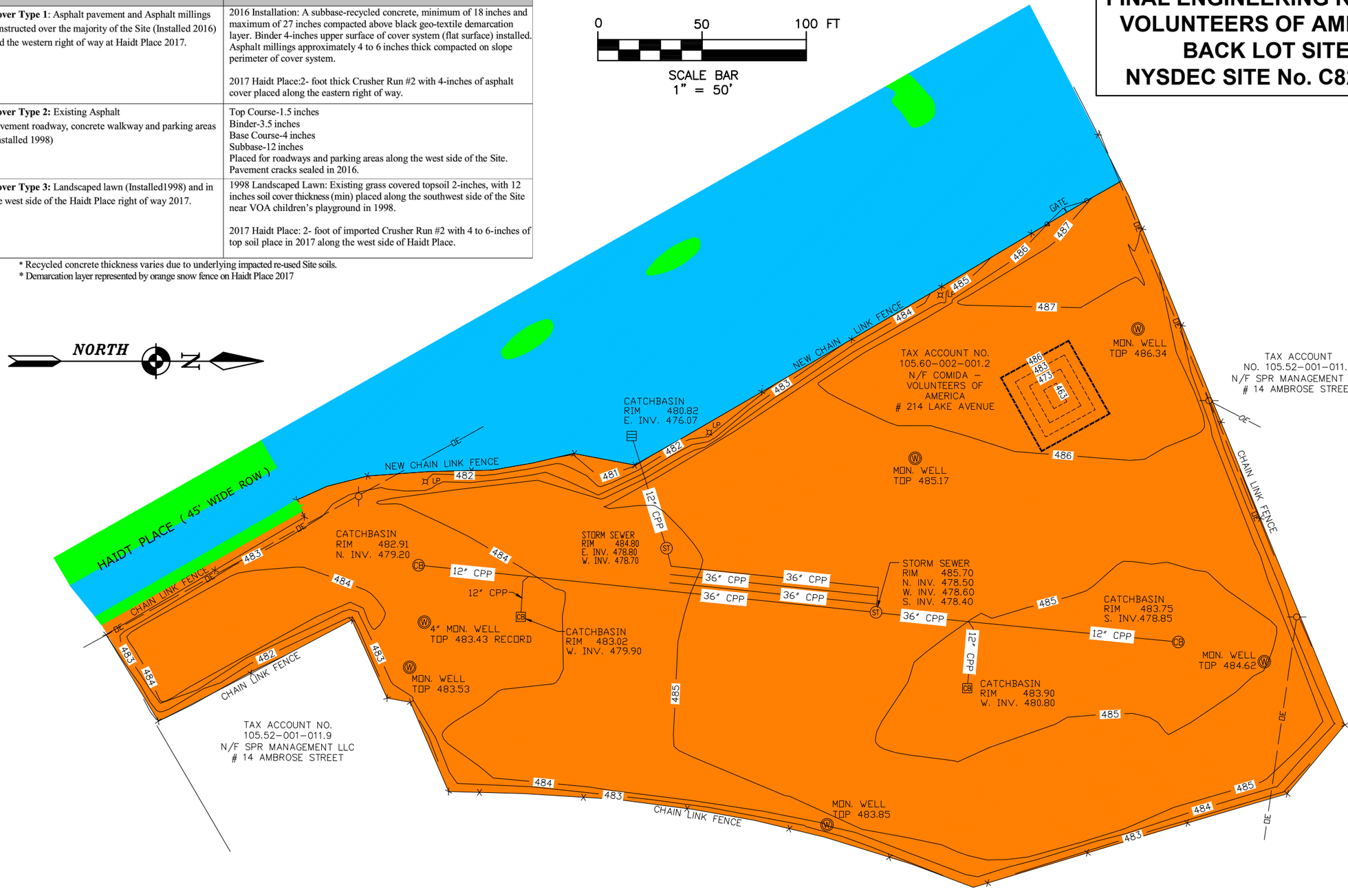
Cover Type	Cross-Section
Cover Type 1: Asphalt pavement and Asphalt millings constructed over the majority of the Site (Installed 2016) and the western right of way at Haidt Place 2017.	2016 Installation: A subbase-recycled concrete, minimum of 18 inches and maximum of 27 inches compacted above black geo-textile demarcation layer. Binder 4-inches upper surface of cover system (flat surface) installed. Asphalt millings approximately 4 to 6 inches thick compacted on slope perimeter of cover system. 2017 Haidt Place:2- foot thick Crusher Run #2 with 4-inches of asphalt cover placed along the eastern right of way.
Cover Type 2: Existing Asphalt Pavement roadway, concrete walkway and parking areas (Installed 1998)	Top Course-1.5 inches Binder-3.5 inches Base Course-4 inches Subbase-12 inches Placed for roadways and parking areas along the west side of the Site. Pavement cracks sealed in 2016.
Cover Type 3: Landscaped lawn (Installed1998) and in the west side of the Haidt Place right of way 2017.	1998 Landscaped Lawn: Existing grass covered topsoil 2-inches, with 12 inches soil cover thickness (min) placed along the southwest side of the Site near VOA children's playground in 1998. 2017 Haidt Place: 2- foot of imported Crusher Run #2 with 4 to 6-inches of top soil place in 2017 along the west side of Haidt Place.

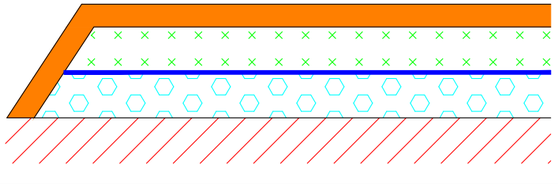
* Recycled concrete thickness varies due to underlying impacted re-used Site soils.
* Demarcation layer represented by orange snow fence on Haidt Place 2017



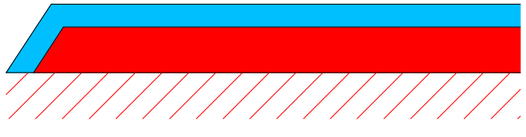
LEGEND

- PAVEMENT APPROXIMATELY 0 TO 6.0 INCHES
- RECYCLED CONCRETE 6 TO 18.0 INCHES
- DEMARCATION LAYER
- REUSED ON-SITE SOIL TESTED FROM RI APPROXIMATELY 18.0 TO 42.0 INCHES
- ORIGINAL GROUND SURFACE
- GRASS COVERED TOPSOIL 0 TO 2 INCHES
- TOPSOIL 4 TO 6 INCHES
- IMPORTED GRAVEL 4 TO 22 INCHES
- SUBBASE 9 TO 21 INCHES
- PAVEMENT 0 TO 9 INCHES

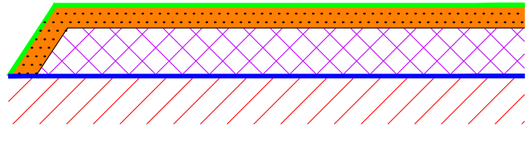
COVER TYPE 1 – MINIMUM 487 ELEVATION



COVER TYPE 2 – MINIMUM



COVER TYPE 3 – MINIMUM 485 ELEVATION



CONTOUR MAP OF EXCAVATION AND BACKFILL THICKNESS

FIGURE 4

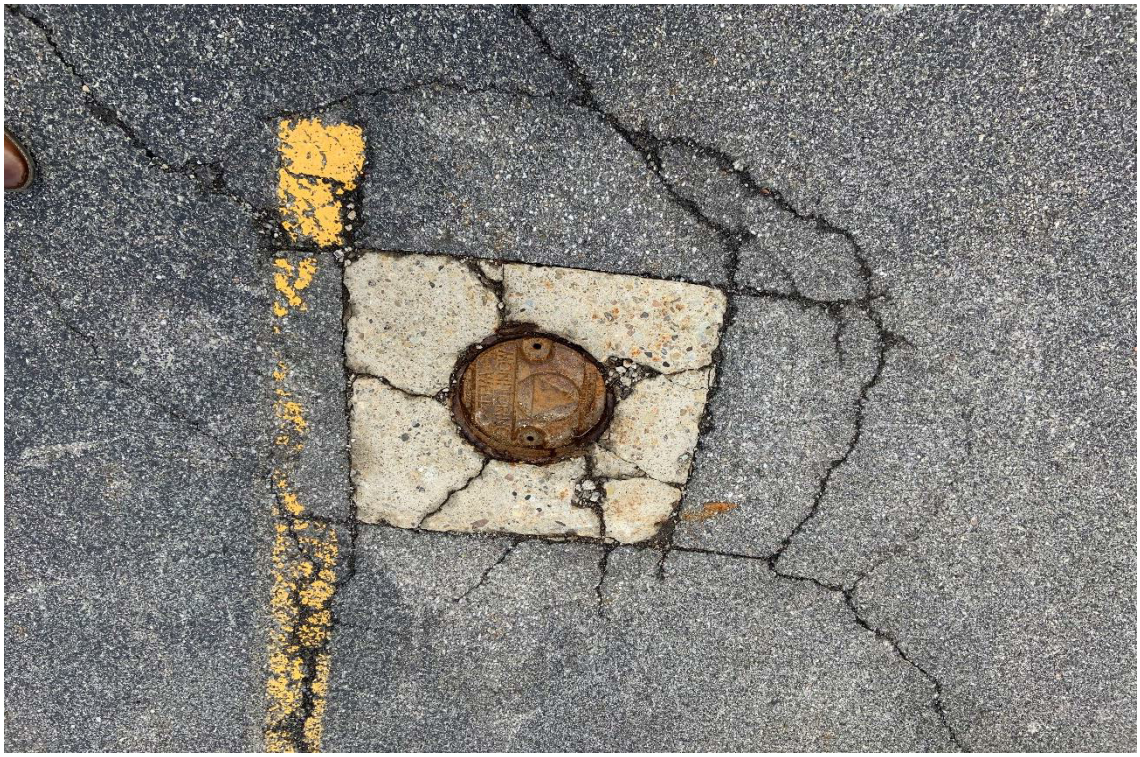
I:\VOA\008726.05 VOA-214 LAKE AVE NYS TITLE 14 BROWNFIELD\3.0 Design\3.8 Reports\Final Engineering Report\Final FER December\Final FER\Figures\Figure 4.dwg

View looking south along Haidt Place Right of Way, grass Cover Type 3.

View looking north Cover Type 2, pavement patches installed in 2018 and 2019 .

Cover Type 2, pavement patches installed in 2019.

Cover Type 3, grass in island of Cover Type 2, view looking northwest.



MW-101 cracked concrete surface seal to be replaced in 2020.

Cracked area of Cover Type 2 that requires sealer in 2020.

Cover Type 1, view looking south.

Cover Type 1, view looking southeast.

Cover Type 1, view looking east with weeds that need removal in 2020.

Cover Type 1, view looking west.

Cover Type 1 and Cover Type 2, view looking north.

Locking gate from Cover Type 2 into Cover Type 1.

APPENDIX 2

280 E. Broad Street
Rochester, NY 14604

TEL: 585.232.5135
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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Environmental Remediation
625 Broadway, 11th Floor, Albany, NY 12233-7020
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www.dec.ny.gov

5/8/2020

Lynn Sullivan
President/Ceo
Volunteers of America of Western New York, Inc.
214 Lake Avenue
Rochester, NY 14608

Re: Reminder Notice: Site Management Periodic Review Report and IC/EC Certification Submittal
Site Name: Volunteers of America Back Lot Site
Site No.: C828126
Site Address: 18 Ambrose Street and portion of 214 Lake Avenue
Rochester, NY 14608

Dear Lynn Sullivan:

This letter serves as a reminder that sites in active Site Management (SM) require the submittal of a periodic progress report. This report, referred to as the Periodic Review Report (PRR), must document the implementation of, and compliance with, site-specific SM requirements. Section 6.3(b) of DER-10 *Technical Guidance for Site Investigation and Remediation* (available online at http://www.dec.ny.gov/regulations/67386.html) provides guidance regarding the information that must be included in the PRR. Further, if the site is comprised of multiple parcels, then you as the Certifying Party must arrange to submit one PRR for all parcels that comprise the site. The PRR must be received by the Department no later than **May 28, 2020**. Guidance on the content of a PRR is enclosed.

Site Management is defined in regulation (6 NYCRR 375-1.2(at)) and in Chapter 6 of DER-10. Depending on when the remedial program for your site was completed, SM may be governed by multiple documents (e.g., Operation, Maintenance, and Monitoring Plan; Soil Management Plan) or one comprehensive Site Management Plan.

A Site Management Plan (SMP) may contain one or all of the following elements, as applicable to the site: a plan to maintain institutional controls and/or engineering controls ("IC/EC Plan"); a plan for monitoring the performance and effectiveness of the selected remedy ("Monitoring Plan"); and/or a plan for the operation and maintenance of the selected remedy ("O&M Plan"). Additionally, the technical requirements for SM are stated in the decision document (e.g., Record of Decision) and, in some cases, the legal agreement directing the remediation of the site (e.g., order on consent, voluntary agreement, etc.).

When you submit the PRR (by the due date above), include the enclosed forms documenting that all SM requirements are being met. The Institutional Controls (ICs) portion of the form (Box 6) must be signed by you or your designated representative. If you cannot certify that all SM requirements are being met, you must submit a Corrective Measures Work Plan that identifies the actions to be taken to restore compliance. The work plan must include a schedule to be approved by the Department. The Periodic Review process will not be considered complete until all necessary corrective measures are completed and all required controls are certified. Instructions for completing the certifications are enclosed.

All site-related documents and data, including the PRR, must be submitted in electronic format to the Department of Environmental Conservation. The required format for documents is an Adobe PDF file with optical character recognition and no password protection. Data must be submitted as an electronic data deliverable (EDD) according to the instructions on the following webpage:

https://www.dec.ny.gov/chemical/62440.html

Documents may be submitted to the project manager either through electronic mail or by using the Department's file transfer service at the following webpage:

https://fts.dec.state.ny.us/fts/

The Department will not approve the PRR unless all documents and data generated in support of the PRR have been submitted using the required formats and protocols.

You may contact , the Project Manager, at or with any questions or concerns about the site. Please notify the project manager before conducting inspections or field work. You may also write to the project manager at the following address:

New York State Department of Environmental Conservation
, NY

Enclosures

PRR General Guidance
Certification Form Instructions
Certification Forms

cc: w/ enclosures

County Of Monroe Industrial Development
Volunteers Of America Of Western NY

ec: w/ enclosures

Charlotte Theobald, Project Manager

David G. Pratt, Hazardous Waste Remediation Supervisor, Region 8

BERGMANN ASSOCIATES - Stephen DeMeo - sdemeo@bergmannpc.com

Enclosure 1

Certification Instructions

I. Verification of Site Details (Box 1 and Box 2):

Answer the three questions in the Verification of Site Details Section. The Owner and/or Qualified Environmental Professional (QEP) may include handwritten changes and/or other supporting documentation, as necessary.

II. Certification of Institutional Controls/ Engineering Controls (IC/ECs)(Boxes 3, 4, and 5)

1.1.1. Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Owner / Remedial Party should petition the Department separately to request approval to remove the control.

2. In Box 5, complete certifications for all Plan components, as applicable, by checking the corresponding checkbox.

3. If you cannot certify "YES" for each Control listed in Box 3 & Box 4, sign and date the form in Box 5. Attach supporting documentation that explains why the **Certification** cannot be rendered, as well as a plan of proposed corrective measures, and an associated schedule for completing the corrective measures. Note that this **Certification** form must be submitted even if an IC or EC cannot be certified; however, the certification process will not be considered complete until corrective action is completed.

If the Department concurs with the explanation, the proposed corrective measures, and the proposed schedule, a letter authorizing the implementation of those corrective measures will be issued by the Department's Project Manager. Once the corrective measures are complete, a new Periodic Review Report (with IC/EC Certification) must be submitted within 45 days to the Department. If the Department has any questions or concerns regarding the PRR and/or completion of the IC/EC Certification, the Project Manager will contact you.

III. IC/EC Certification by Signature (Box 6 and Box 7**):**

If you certified "YES" for each Control, please complete and sign the IC/EC Certifications page as follows:

- For the Institutional Controls on the use of the property, the certification statement in Box 6 shall be completed and may be made by the property owner or designated representative.

- For the Engineering Controls, the certification statement in Box 7 must be completed by a Professional Engineer or Qualified Environmental Professional, as noted on the form.

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. C828126

Site Name Volunteers of America Back Lot Site

Site Address: 18 Ambrose Street and portion of 214 Lake Avenue Zip Code: 14608
City/Town: Rochester
County: Monroe
Site Acreage: 3.055

Reporting Period: April 29, 2019 to April 29, 2020

	YES	NO
1. Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☒

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	☒	☐
7. Are all ICs/ECs in place and functioning as designed?	☒	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative Date

	Box 2A	
	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☒
If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.		
9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☒	☐
If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.		

SITE NO. C828126 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
105.60-2-1.002 (portion of)	County of Monroe Industrial Development	Ground Water Use Restriction Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan

Imposition of an institutional control in the form of an environmental easement for the controlled property which will: requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3); allows the use and development of the controlled property for restricted residential as defined by Part 375-1.8(g), although land use is subject to local zoning laws; restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH; and require compliance with the Department approved Site Management Plan.

A Site Management Plan is required, which includes the following: an Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the site and details the steps and media-specific requirements necessary to ensure the following institutional and/or engineering controls remain in place and effective.

This plan includes, but may not be limited to: an Excavation Plan which details the provisions for management of future excavations in areas of remaining contamination; descriptions of the provisions of the environmental easement including any land use and groundwater use restrictions; a provision for evaluation of the potential for soil vapor intrusion for any buildings developed on the site, including provision for implementing actions recommended to address exposures related to soil vapor intrusion; provisions for the management and inspection of the identified engineering controls; maintaining site access controls and Department notification; and the steps necessary for the periodic reviews and certification of the institutional and/or engineering controls. A Monitoring Plan to assess the performance and effectiveness of the remedy. The plan includes, but may not be limited to: monitoring of groundwater to assess the performance and effectiveness of the remedy; a schedule of monitoring and frequency of submittals to the Department; and monitoring for vapor intrusion for any future buildings developed on the site.

105.60-2-59.003	Volunteers of America of Western NY	Ground Water Use Restriction Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan

Imposition of an institutional control in the form of an environmental easement for the controlled property which will: requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3); allows the use and development of the controlled property for restricted residential as defined by Part 375-1.8(g), although land use is subject to local zoning laws; restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH; and require compliance with the Department approved Site Management Plan.

A Site Management Plan is required, which includes the following: an Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the site and details the steps and media-specific requirements necessary to ensure the following institutional and/or engineering controls remain in place and effective.

This plan includes, but may not be limited to: an Excavation Plan which details the provisions for management of future excavations in areas of remaining contamination; descriptions of the provisions of the environmental easement including any land use and groundwater use restrictions; a provision for evaluation of the potential for soil vapor intrusion for any buildings developed on the site, including provision for implementing actions recommended to address exposures related to soil vapor intrusion; provisions for the management and inspection of the identified engineering controls; maintaining site access controls and Department notification; and the steps necessary for the periodic reviews and certification of the institutional and/or engineering controls. A Monitoring Plan to assess the performance and effectiveness of the remedy. The plan includes, but may not be limited to: monitoring of groundwater to assess the performance and effectiveness of the remedy; a schedule of monitoring and frequency of submittals to the Department; and monitoring for vapor intrusion for any future buildings developed on the site.

Box 4

Description of Engineering Controls

Parcel — Engineering Control

105.60-2-1.002 (portion of)

Cover System

A site cover will be required to allow for restricted residential use of the site. The cover will consist either of the structures such as buildings, pavement, sidewalks comprising the site development or a soil cover in areas where the upper two feet of exposed surface soil will exceed the applicable soil cleanup objectives (SCOs). Where the soil cover is required it will be a minimum of two feet of soil placed over a demarcation layer, with the upper six inches of the soil of sufficient quality to maintain a vegetation layer. Soil cover material, including any fill material brought to the site, will meet the SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d).

105.60-2-59.003

Cover System

A site cover will be required to allow for restricted residential use of the site. The cover will consist either of the structures such as buildings, pavement, sidewalks comprising the site development or a soil cover in areas where the upper two feet of exposed surface soil will exceed the applicable soil cleanup objectives (SCOs). Where the soil cover is required it will be a minimum of two feet of soil placed over a demarcation layer, with the upper six inches of the soil of sufficient quality to maintain a vegetation layer. Soil cover material, including any fill material brought to the site, will meet the SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d).

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
X	

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
X	

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C828126

Box 6

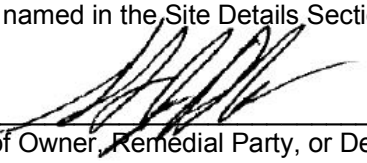
SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Stephen DeMeo (print name) at 280 East Broad Street, Rochester, NY, 14604 (print business address),

am certifying as Consultant for Owner for the Site named in the Site Details of this form (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.



Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

May 28, 2020
Date

IC/EC CERTIFICATIONS

Box 7

Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Robert Switala, PE (print name) at 2665 Corning Road, Horseheads, NY, 14845 (print business address),
NYS Professional Engineer
am certifying as a ^for the Owner (Owner or Remedial Party)

Signature of , for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

May 28, 2020
Date

Enclosure 3
Periodic Review Report (PRR) General Guidance

I. Executive Summary: (1/2-page or less)
   A. Provide a brief summary of site, nature and extent of contamination, and remedial history.
   B. Effectiveness of the Remedial Program - Provide overall conclusions regarding;
      1. progress made during the reporting period toward meeting the remedial objectives for the site
      2. the ultimate ability of the remedial program to achieve the remedial objectives for the site.
   C. Compliance
      1. Identify any areas of non-compliance regarding the major elements of the Site Management Plan (SMP, i.e., the Institutional/Engineering Control (IC/EC) Plan, the Monitoring Plan, and the Operation & Maintenance (O&M) Plan).
      2. Propose steps to be taken and a schedule to correct any areas of non-compliance.
   D. Recommendations
      1. recommend whether any changes to the SMP are needed
      2. recommend any changes to the frequency for submittal of PRRs (increase, decrease)
      3. recommend whether the requirements for discontinuing site management have been met.

II. Site Overview (one page or less)
   A. Describe the site location, boundaries (figure), significant features, surrounding area, and the nature and extent of contamination prior to site remediation.
   B. Describe the chronology of the main features of the remedial program for the site, the components of the selected remedy, cleanup goals, site closure criteria, and any significant changes to the selected remedy that have been made since remedy selection.

III. Evaluate Remedy Performance, Effectiveness, and Protectiveness
   Using tables, graphs, charts and bulleted text to the extent practicable, describe the effectiveness of the remedy in achieving the remedial goals for the site. Base findings, recommendations, and conclusions on objective data. Evaluations and should be presented simply and concisely.

IV. IC/EC Plan Compliance Report (if applicable)
   A. IC/EC Requirements and Compliance
      1. Describe each control, its objective, and how performance of the control is evaluated.
      2. Summarize the status of each goal (whether it is fully in place and its effectiveness).
      3. Corrective Measures: describe steps proposed to address any deficiencies in ICECs.
      4. Conclusions and recommendations for changes.
   B. IC/EC Certification
      1. The certification must be complete (even if there are IC/EC deficiencies), and certified by the appropriate party as set forth in a Department-approved certification form(s).

V. Monitoring Plan Compliance Report (if applicable)
   A. Components of the Monitoring Plan (tabular presentations preferred) - Describe the requirements of the monitoring plan by media (i.e., soil, groundwater, sediment, etc.) and by any remedial technologies being used at the site.
   B. Summary of Monitoring Completed During Reporting Period - Describe the monitoring tasks actually completed during this PRR reporting period. Tables and/or figures should be used to show all data.
   C. Comparisons with Remedial Objectives - Compare the results of all monitoring with the remedial objectives for the site. Include trend analyses where possible.
   D. Monitoring Deficiencies - Describe any ways in which monitoring did not fully comply with the monitoring plan.
   E. Conclusions and Recommendations for Changes - Provide overall conclusions regarding the monitoring completed and the resulting evaluations regarding remedial effectiveness.

VI. Operation & Maintenance (O&M) Plan Compliance Report (if applicable)
   A. Components of O&M Plan - Describe the requirements of the O&M plan including required activities, frequencies, recordkeeping, etc.
   B. Summary of O&M Completed During Reporting Period - Describe the O&M tasks actually completed during this PRR reporting period.
   C. Evaluation of Remedial Systems - Based upon the results of the O&M activities completed, evaluated

the ability of each component of the remedy subject to O&M requirements to perform as designed/expected.

D. O&M Deficiencies - Identify any deficiencies in complying with the O&M plan during this PRR reporting period.

E. Conclusions and Recommendations for Improvements - Provide an overall conclusion regarding O&M for the site and identify any suggested improvements requiring changes in the O&M Plan.

VII. Overall PRR Conclusions and Recommendations

A. Compliance with SMP - For each component of the SMP (i.e., IC/EC, monitoring, O&M), summarize;
   1. whether all requirements of each plan were met during the reporting period
   2. any requirements not met
   3. proposed plans and a schedule for coming into full compliance.

B. Performance and Effectiveness of the Remedy - Based upon your evaluation of the components of the SMP, form conclusions about the performance of each component and the ability of the remedy to achieve the remedial objectives for the site.

C. Future PRR Submittals
   1. Recommend, with supporting justification, whether the frequency of the submittal of PRRs should be changed (either increased or decreased).
   2. If the requirements for site closure have been achieved, contact the Departments Project Manager for the site to determine what, if any, additional documentation is needed to support a decision to discontinue site management.

VIII. Additional Guidance

Additional guidance regarding the preparation and submittal of an acceptable PRR can be obtained from the Departments Project Manager for the site.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Environmental Remediation
625 Broadway, 11th Floor, Albany, NY 12233-7020
P: (518)402-9543 | F: (518)402-9547
www.dec.ny.gov

5/8/2020

Lynn Sullivan
President/Ceo
Volunteers of America of Western New York, Inc.
214 Lake Avenue
Rochester, NY 14608

Re: Reminder Notice: Site Management Periodic Review Report and IC/EC Certification Submittal
Site Name: Volunteers of America Back Lot Site
Site No.: C828126
Site Address: 18 Ambrose Street and portion of 214 Lake Avenue
Rochester, NY 14608

Dear Kim Brumber:

This letter serves as a reminder that sites in active Site Management (SM) require the submittal of a periodic progress report. This report, referred to as the Periodic Review Report (PRR), must document the implementation of, and compliance with, site-specific SM requirements. Section 6.3(b) of DER-10 *Technical Guidance for Site Investigation and Remediation* (available online at http://www.dec.ny.gov/regulations/67386.html) provides guidance regarding the information that must be included in the PRR. Further, if the site is comprised of multiple parcels, then you as the Certifying Party must arrange to submit one PRR for all parcels that comprise the site. The PRR must be received by the Department no later than **May 28, 2020**. Guidance on the content of a PRR is enclosed.

Site Management is defined in regulation (6 NYCRR 375-1.2(at)) and in Chapter 6 of DER-10. Depending on when the remedial program for your site was completed, SM may be governed by multiple documents (e.g., Operation, Maintenance, and Monitoring Plan; Soil Management Plan) or one comprehensive Site Management Plan.

A Site Management Plan (SMP) may contain one or all of the following elements, as applicable to the site: a plan to maintain institutional controls and/or engineering controls ("IC/EC Plan"); a plan for monitoring the performance and effectiveness of the selected remedy ("Monitoring Plan"); and/or a plan for the operation and maintenance of the selected remedy ("O&M Plan"). Additionally, the technical requirements for SM are stated in the decision document (e.g., Record of Decision) and, in some cases, the legal agreement directing the remediation of the site (e.g., order on consent, voluntary agreement, etc.).

When you submit the PRR (by the due date above), include the enclosed forms documenting that all SM requirements are being met. The Institutional Controls (ICs) portion of the form (Box 6) must be signed by you or your designated representative. If you cannot certify that all SM requirements are being met, you must submit a Corrective Measures Work Plan that identifies the actions to be taken to restore compliance. The work plan must include a schedule to be approved by the Department. The Periodic Review process will not be considered complete until all necessary corrective measures are completed and all required controls are certified. Instructions for completing the certifications are enclosed.

All site-related documents and data, including the PRR, must be submitted in electronic format to the Department of Environmental Conservation. The required format for documents is an Adobe PDF file with optical character recognition and no password protection. Data must be submitted as an electronic data deliverable (EDD) according to the instructions on the following webpage:

https://www.dec.ny.gov/chemical/62440.html

Documents may be submitted to the project manager either through electronic mail or by using the Department's file transfer service at the following webpage:

https://fts.dec.state.ny.us/fts/

The Department will not approve the PRR unless all documents and data generated in support of the PRR have been submitted using the required formats and protocols.

You may contact , the Project Manager, at or with any questions or concerns about the site. Please notify the project manager before conducting inspections or field work. You may also write to the project manager at the following address:

New York State Department of Environmental Conservation
, NY

Enclosures

PRR General Guidance
Certification Form Instructions
Certification Forms

cc: w/ enclosures

County Of Monroe Industrial Development
Volunteers Of America Of Western NY

ec: w/ enclosures

Charlotte Theobald, Project Manager

David G. Pratt, Hazardous Waste Remediation Supervisor, Region 8

BERGMANN ASSOCIATES - Stephen DeMeo - sdemeo@bergmannpc.com

Enclosure 1

Certification Instructions

I. Verification of Site Details (Box 1 and Box 2):

Answer the three questions in the Verification of Site Details Section. The Owner and/or Qualified Environmental Professional (QEP) may include handwritten changes and/or other supporting documentation, as necessary.

II. Certification of Institutional Controls/ Engineering Controls (IC/ECs)(Boxes 3, 4, and 5)

1.1.1. Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Owner / Remedial Party should petition the Department separately to request approval to remove the control.

2. In Box 5, complete certifications for all Plan components, as applicable, by checking the corresponding checkbox.

3. If you cannot certify "YES" for each Control listed in Box 3 & Box 4, sign and date the form in Box 5. Attach supporting documentation that explains why the **Certification** cannot be rendered, as well as a plan of proposed corrective measures, and an associated schedule for completing the corrective measures. Note that this **Certification** form must be submitted even if an IC or EC cannot be certified; however, the certification process will not be considered complete until corrective action is completed.

If the Department concurs with the explanation, the proposed corrective measures, and the proposed schedule, a letter authorizing the implementation of those corrective measures will be issued by the Department's Project Manager. Once the corrective measures are complete, a new Periodic Review Report (with IC/EC Certification) must be submitted within 45 days to the Department. If the Department has any questions or concerns regarding the PRR and/or completion of the IC/EC Certification, the Project Manager will contact you.

III. IC/EC Certification by Signature (Box 6 and Box 7**):**

If you certified "YES" for each Control, please complete and sign the IC/EC Certifications page as follows:

- For the Institutional Controls on the use of the property, the certification statement in Box 6 shall be completed and may be made by the property owner or designated representative.

- For the Engineering Controls, the certification statement in Box 7 must be completed by a Professional Engineer or Qualified Environmental Professional, as noted on the form.

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. **C828126**

Site Name Volunteers of America Back Lot Site

Site Address: 18 Ambrose Street and portion of 214 Lake Avenue Zip Code: 14608
City/Town: Rochester
County: Monroe
Site Acreage: 3.055

Reporting Period: April 29, 2019 to April 29, 2020

	YES	NO
1. Is the information above correct?	☐	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☐
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☐
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☐
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	☐

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	☐	☐
7. Are all ICs/ECs in place and functioning as designed?	☐	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative Date

	Box 2A	
	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☐
If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.		
9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☐	☐
If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.		

SITE NO. C828126 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
105.60-2-1.002 (portion of)	County of Monroe Industrial Development	Ground Water Use Restriction Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan

Imposition of an institutional control in the form of an environmental easement for the controlled property which will: requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3); allows the use and development of the controlled property for restricted residential as defined by Part 375-1.8(g), although land use is subject to local zoning laws; restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH; and require compliance with the Department approved Site Management Plan.

A Site Management Plan is required, which includes the following: an Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the site and details the steps and media-specific requirements necessary to ensure the following institutional and/or engineering controls remain in place and effective.

This plan includes, but may not be limited to: an Excavation Plan which details the provisions for management of future excavations in areas of remaining contamination; descriptions of the provisions of the environmental easement including any land use and groundwater use restrictions; a provision for evaluation of the potential for soil vapor intrusion for any buildings developed on the site, including provision for implementing actions recommended to address exposures related to soil vapor intrusion; provisions for the management and inspection of the identified engineering controls; maintaining site access controls and Department notification; and the steps necessary for the periodic reviews and certification of the institutional and/or engineering controls. A Monitoring Plan to assess the performance and effectiveness of the remedy. The plan includes, but may not be limited to: monitoring of groundwater to assess the performance and effectiveness of the remedy; a schedule of monitoring and frequency of submittals to the Department; and monitoring for vapor intrusion for any future buildings developed on the site.

105.60-2-59.003	Volunteers of America of Western NY	Ground Water Use Restriction Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan

Imposition of an institutional control in the form of an environmental easement for the controlled property which will: requires the remedial party or site owner to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3); allows the use and development of the controlled property for restricted residential as defined by Part 375-1.8(g), although land use is subject to local zoning laws; restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or County DOH; and require compliance with the Department approved Site Management Plan.

A Site Management Plan is required, which includes the following: an Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the site and details the steps and media-specific requirements necessary to ensure the following institutional and/or engineering controls remain in place and effective.

This plan includes, but may not be limited to: an Excavation Plan which details the provisions for management of future excavations in areas of remaining contamination; descriptions of the provisions of the environmental easement including any land use and groundwater use restrictions; a provision for evaluation of the potential for soil vapor intrusion for any buildings developed on the site, including provision for implementing actions recommended to address exposures related to soil vapor intrusion; provisions for the management and inspection of the identified engineering controls; maintaining site access controls and Department notification; and the steps necessary for the periodic reviews and certification of the institutional and/or engineering controls. A Monitoring Plan to assess the performance and effectiveness of the remedy. The plan includes, but may not be limited to: monitoring of groundwater to assess the performance and effectiveness of the remedy; a schedule of monitoring and frequency of submittals to the Department; and monitoring for vapor intrusion for any future buildings developed on the site.

Box 4

Description of Engineering Controls

Parcel — Engineering Control

105.60-2-1.002 (portion of)

Cover System

A site cover will be required to allow for restricted residential use of the site. The cover will consist either of the structures such as buildings, pavement, sidewalks comprising the site development or a soil cover in areas where the upper two feet of exposed surface soil will exceed the applicable soil cleanup objectives (SCOs). Where the soil cover is required it will be a minimum of two feet of soil placed over a demarcation layer, with the upper six inches of the soil of sufficient quality to maintain a vegetation layer. Soil cover material, including any fill material brought to the site, will meet the SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d).

105.60-2-59.003

Cover System

A site cover will be required to allow for restricted residential use of the site. The cover will consist either of the structures such as buildings, pavement, sidewalks comprising the site development or a soil cover in areas where the upper two feet of exposed surface soil will exceed the applicable soil cleanup objectives (SCOs). Where the soil cover is required it will be a minimum of two feet of soil placed over a demarcation layer, with the upper six inches of the soil of sufficient quality to maintain a vegetation layer. Soil cover material, including any fill material brought to the site, will meet the SCOs for cover material as set forth in 6 NYCRR Part 375-6.7(d).

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
☐	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☐	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

_____ _____

Signature of Owner, Remedial Party or Designated Representative — Date

IC CERTIFICATIONS
SITE NO. C828126

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I _____ at _____,
print name print business address

am certifying as _____(Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

_____ _____
Signature of Owner, Remedial Party, or Designated Representative Date
Rendering Certification

IC/EC CERTIFICATIONS

Box 7

Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I _____ at _____,
print name print business address

am certifying as a for the _____
(Owner or Remedial Party)

_____ _____ _____
Signature of , for the Owner or Remedial Party, Rendering Certification | Stamp (Required for PE) | Date

Enclosure 3
Periodic Review Report (PRR) General Guidance

I. Executive Summary: (1/2-page or less)
   A. Provide a brief summary of site, nature and extent of contamination, and remedial history.
   B. Effectiveness of the Remedial Program - Provide overall conclusions regarding;
      1. progress made during the reporting period toward meeting the remedial objectives for the site
      2. the ultimate ability of the remedial program to achieve the remedial objectives for the site.
   C. Compliance
      1. Identify any areas of non-compliance regarding the major elements of the Site Management Plan (SMP, i.e., the Institutional/Engineering Control (IC/EC) Plan, the Monitoring Plan, and the Operation & Maintenance (O&M) Plan).
      2. Propose steps to be taken and a schedule to correct any areas of non-compliance.
   D. Recommendations
      1. recommend whether any changes to the SMP are needed
      2. recommend any changes to the frequency for submittal of PRRs (increase, decrease)
      3. recommend whether the requirements for discontinuing site management have been met.

II. Site Overview (one page or less)
   A. Describe the site location, boundaries (figure), significant features, surrounding area, and the nature and extent of contamination prior to site remediation.
   B. Describe the chronology of the main features of the remedial program for the site, the components of the selected remedy, cleanup goals, site closure criteria, and any significant changes to the selected remedy that have been made since remedy selection.

III. Evaluate Remedy Performance, Effectiveness, and Protectiveness
   Using tables, graphs, charts and bulleted text to the extent practicable, describe the effectiveness of the remedy in achieving the remedial goals for the site. Base findings, recommendations, and conclusions on objective data. Evaluations and should be presented simply and concisely.

IV. IC/EC Plan Compliance Report (if applicable)
   A. IC/EC Requirements and Compliance
      1. Describe each control, its objective, and how performance of the control is evaluated.
      2. Summarize the status of each goal (whether it is fully in place and its effectiveness).
      3. Corrective Measures: describe steps proposed to address any deficiencies in ICECs.
      4. Conclusions and recommendations for changes.
   B. IC/EC Certification
      1. The certification must be complete (even if there are IC/EC deficiencies), and certified by the appropriate party as set forth in a Department-approved certification form(s).

V. Monitoring Plan Compliance Report (if applicable)
   A. Components of the Monitoring Plan (tabular presentations preferred) - Describe the requirements of the monitoring plan by media (i.e., soil, groundwater, sediment, etc.) and by any remedial technologies being used at the site.
   B. Summary of Monitoring Completed During Reporting Period - Describe the monitoring tasks actually completed during this PRR reporting period. Tables and/or figures should be used to show all data.
   C. Comparisons with Remedial Objectives - Compare the results of all monitoring with the remedial objectives for the site. Include trend analyses where possible.
   D. Monitoring Deficiencies - Describe any ways in which monitoring did not fully comply with the monitoring plan.
   E. Conclusions and Recommendations for Changes - Provide overall conclusions regarding the monitoring completed and the resulting evaluations regarding remedial effectiveness.

VI. Operation & Maintenance (O&M) Plan Compliance Report (if applicable)
   A. Components of O&M Plan - Describe the requirements of the O&M plan including required activities, frequencies, recordkeeping, etc.
   B. Summary of O&M Completed During Reporting Period - Describe the O&M tasks actually completed during this PRR reporting period.
   C. Evaluation of Remedial Systems - Based upon the results of the O&M activities completed, evaluated

the ability of each component of the remedy subject to O&M requirements to perform as designed/expected.

D. O&M Deficiencies - Identify any deficiencies in complying with the O&M plan during this PRR reporting period.

E. Conclusions and Recommendations for Improvements - Provide an overall conclusion regarding O&M for the site and identify any suggested improvements requiring changes in the O&M Plan.

VII. Overall PRR Conclusions and Recommendations

A. Compliance with SMP - For each component of the SMP (i.e., IC/EC, monitoring, O&M), summarize;
   1. whether all requirements of each plan were met during the reporting period
   2. any requirements not met
   3. proposed plans and a schedule for coming into full compliance.

B. Performance and Effectiveness of the Remedy - Based upon your evaluation of the components of the SMP, form conclusions about the performance of each component and the ability of the remedy to achieve the remedial objectives for the site.

C. Future PRR Submittals
   1. Recommend, with supporting justification, whether the frequency of the submittal of PRRs should be changed (either increased or decreased).
   2. If the requirements for site closure have been achieved, contact the Departments Project Manager for the site to determine what, if any, additional documentation is needed to support a decision to discontinue site management.

VIII. Additional Guidance

Additional guidance regarding the preparation and submittal of an acceptable PRR can be obtained from the Departments Project Manager for the site.

APPENDIX 3

280 E. Broad Street
Rochester, NY 14604

TEL: 585.232.5135
www.bergmannpc.com

TABLE 8 Groundwater Sample Analytical Summary
Semi-Volatile Organic Compounds – Method OLM 4.2
Volunteers of America of Western New York
214 Lake Avenue Rochester, New York

Semi-volatile Organic Compounds Page 1 of 4	**VOAMW - 101** **10/30/08**	**VOAMWR - 101** **10/30/08**	**VOAMW - 102** **10/31/08**	**VOAMWR - 102** **10/31/08**	**VOAMW – 103** **10/31/08**	**VOAMW – 104** **10/30/08**	**NYSDEC** **Groundwater Standards**
Acenaphthene	9ND	9ND	9ND	9ND	**2.0J**	9ND	20
Acenaphthylene	9ND	9ND	9ND	9ND	9ND	9ND	-
Acetophenone	9ND	9ND	9ND	9ND	9ND	9ND	-
Anthracene	**1.0J**	9ND	9ND	9ND	9ND	9ND	50
Atrazine	9ND	9ND	9ND	9ND	9ND	9ND	7.5
Benzaldehyde	9ND	9ND	9ND	9ND	9ND	9ND	-
Benzo (a) Anthracene	**2.0J**	9ND	9ND	9ND	**1.0J**	**1.0J**	0.002
Benzo (a) Pyrene	**2.0J**	9ND	9ND	9ND	**2.0J**	**1.0J**	ND
Benzo (b) Fluoranthene	**1.0J**	9ND	9ND	9ND	**1.0J**	**1.0J**	0.002
Benzo (g,h,i) Perylene	**1.0J**	9ND	9ND	9ND	**2.0J**	9ND	-
Benzo (k) Fluoranthene	**1.0J**	9ND	9ND	9ND	9ND	9ND	0.002
Biphenyl	9ND	9ND	9ND	9ND	9ND	9ND	-
Butyl Benzyl Phthalate	9ND	9ND	9ND	9ND	9ND	9ND	50
Di-N-Butylphthalate	**3.0JB**	**3.0JB**	**3.0JB**	**3.0JB**	**3.0JB**	**3.0JB**	50
Caprolactam	24ND	**3.0J**	9ND	9ND	**8.0J**	9ND	-
Carbazole	9ND	9ND	9ND	9ND	9ND	9ND	-
Indeno (1,2,3-cd) Pyrene	**1.0J**	9ND	9ND	9ND	**1.0J**	9ND	0.002
4-Chloroaniline	9ND	9ND	9ND	9ND	9ND	9ND	5.0
Bis (-2-Chloroethoxy) Methane	9ND	9ND	9ND	9ND	9ND	9ND	5.0
Bis (-2-Chloroethyl) Ether	9ND	9ND	9ND	9ND	9ND	9ND	1.0
2-Chloronaphthalene	9ND	9ND	9ND	9ND	9ND	9ND	10
2-Chlorophenol	9ND	9ND	9ND	9ND	9ND	9ND	1.0
2,2'- Oxybis (1-Chloropropane)	9ND	9ND	9ND	9ND	9ND	9ND	5.0
Chrysene	**2.0J**	9ND	9ND	9ND	**1.0J**	**1.0J**	0.002
Dibenz (a,h) Anthracene	9ND	9ND	9ND	9ND	9ND	9ND	-
Dibenzofuran	9ND	9ND	9ND	9ND	**2.0J**	9ND	-
3,3'- Dichlorobenzidine	9ND	9ND	9ND	9ND	9ND	9ND	5.0
2,4- Dichlorophenol	9ND	9ND	9ND	9ND	9ND	9ND	1.0
Diethylphthalate	9ND	9ND	9ND	9ND	9ND	9ND	50
Dimethyl Phthalate	9ND	9ND	9ND	9ND	9ND	9ND	50
2,4- Dimethylphenol	24ND	24ND	24ND	24ND	**1.0J**	9ND	1.0
2,4- Dinitrophenol	9ND	9ND	9ND	9ND	9ND	9ND	1.0
2,4- Dinitrotoluene	9ND	9ND	9ND	9ND	9ND	9ND	5.0
2,6- Dinitrotoluene	9ND	9ND	9ND	9ND	9ND	9ND	5.0
Bis (2-Ethylhexyl) Phthalate	**2.0JB**	**4.0JB**	**3.0JB**	**9.0JB**	**4.0JB**	**3.0JB**	5.0

TABLE 8 Groundwater Sample Analytical Summary
Semi-Volatile Organic Compounds – Method OLM 4.2
Volunteers of America of Western New York
214 Lake Avenue Rochester, New York

Semi – volatile Organic Compounds Page 2 of 4	**VOAMW - 101** **10/30/08**	**VOAMWR - 101** **10/30/08**	**VOAMW - 102** **10/31/08**	**VOAMWR - 102** **10/31/08**	**VOAMW – 103** **10/31/08**	**VOAMW – 104** **10/30/08**	**NYSDEC** **Groundwater Standards**
Fluoranthene	**4.0J**	9ND	9ND	9ND	9ND	**2.0J**	50
Fluorene	9ND	9ND	9ND	9ND	9ND	9ND	50
Hexachlorobenzene	9ND	9ND	9ND	9ND	9ND	9ND	0.04
Hexachlorobutadiene	9ND	9ND	9ND	9ND	9ND	9ND	0.5
Hexachlorocyclopentadiene	9ND	9ND	9ND	9ND	9ND	9ND	5.0
Hexachloroethane	9ND	9ND	9ND	9ND	9ND	9ND	5.0
Isophorone	9ND	9ND	9ND	9ND	9ND	9ND	5.0
2- Methylnaphthalene	9ND	9ND	9ND	9ND	**2.0J**	9ND	-
4,6- Dinitro-2- Methylphenol	24ND	24ND	24ND	24ND	24ND	9ND	1.0
4- Chloro-3- Methylphenol	9ND	9ND	9ND	9ND	9ND	9ND	1.0
2- Methylphenol	9ND	9ND	9ND	9ND	9ND	9ND	1.0
4- Methylphenol	**36.0**	9ND	9ND	9ND	**3.0J**	**1.0J**	1.0
Naphthalene	**2.0J**	9ND	9ND	9ND	**6.0J**	9ND	10
2- Nitroaniline	24ND	24ND	24ND	24ND	24ND	24ND	5.0
3- Nitroaniline	24ND	24ND	24ND	24ND	24ND	24ND	5.0
4- Nitroaniline	24ND	24ND	24ND	24ND	24ND	24ND	5.0
Nitrobenzene	9ND	9ND	9ND	9ND	9ND	9ND	0.4
2- Nitrophenol	9ND	9ND	9ND	9ND	9ND	9ND	1.0
4- Nitrophenol	24ND	24ND	24ND	24ND	24ND	24ND	1.0
N- Nitrosodiphenylamine	9ND	9ND	9ND	9ND	9ND	9ND	50
Di-n-octyl Phthalate	9ND	9ND	9ND	9ND	9ND	9ND	50
Pentachlorophenol	24ND	24ND	24ND	24ND	24ND	24ND	5.0
Phenanthrene	**4.0J**	9ND	9ND	9ND	**3.0J**	**1.0J**	5.0
Phenol	**6.0J**	9ND	9ND	9ND	**2.0J**	9ND	1.0
4- Bromophenyl- Phenylether	9ND	9ND	9ND	9ND	9ND	9ND	-
4- Chlorophenyl- Phenylether	9ND	9ND	9ND	9ND	9ND	9ND	-
N- nitroso-di-n- Propylamine	9ND	9ND	9ND	9ND	9ND	9ND	-
Pyrene	**3.0J**	9ND	9ND	9ND	**2.0J**	**2.0J**	5.0
2,4,6- Trichlorophenol	9ND	9ND	9ND	9ND	9ND	9ND	1.0
2,4,5- Trichlorophenol	24ND	24ND	24ND	24ND	24ND	24ND	1.0
Total TICs Concentration and Number of TICs Detected	**53.0J,JB (16)**	**8.0 J,JB (3)**	**12.0 J,JB,JN (5)**	**2.0JB (1)**	**18.0 J,JB,JN (7)**	**40.0 J,JB,JN (8)**	NA

Notes: Groundwater samples collected on October 300, 2008 and October 31, 2008 by GeoQuest Environmental, Inc. concentrations expressed in parts per billion (ppb). Bold type indicates concentration above the laboratory detection limit and shaded concentrations exceed NYSDEC Groundwater standard. See laboratory case narrative page 3 for **J**, **JN, JB** estimated values. - = No standard, ND = non detection above limits. NYSDEC groundwater standards 703.5 and June 1998 Division of Technical and Operational guidance series T.O.G.S. 1.1.1 and as amended April 2000.

TABLE 8 Groundwater Sample Analytical Summary
Semi-Volatile Organic Compounds – Method OLM 4.2
Volunteers of America of Western New York
214 Lake Avenue Rochester, New York

Semi-volatile Organic Compounds Page 3 of 4	**VOAMW - 105** **10/31/08**	**VOAMW - 105** **10/30/08 dup.**	**VOAMW - 106** **10/30/08**	**NYSDEC** **Groundwater Standards**
Acenaphthene	9ND	9ND	**3.0J**	20
Acenaphthylene	9ND	9ND	9ND	-
Acetophenone	9ND	9ND	9ND	-
Anthracene	9ND	9ND	**4.0J**	50
Atrazine	9ND	9ND	9ND	7.5
Benzaldehyde	9ND	9ND	9ND	-
Benzo (a) Anthracene	9ND	9ND	**10.0J**	0.002
Benzo (a) Pyrene	9ND	9ND	**10.0J**	ND
Benzo (b) Fluoranthene	9ND	9ND	**7.0J**	0.002
Benzo (g,h,i) Perylene	9ND	9ND	**6.0J**	-
Benzo (k) Fluoranthene	9ND	9ND	**8.0J**	0.002
Biphenyl	9ND	9ND	9ND	-
Butyl Benzyl Phthalate	9ND	9ND	9ND	50
Di-N-Butylphthalate	**2.0JB**	**3.0JB**	**3.0JB**	50
Caprolactam	24ND	24ND	24ND	-
Carbazole	9ND	9ND	9ND	-
Indeno (1,2,3-cd) Pyrene	9ND	9ND	**5.0J**	0.002
4-Chloroaniline	9ND	9ND	9ND	5.0
Bis (-2-Chloroethoxy) Methane	9ND	9ND	9ND	5.0
Bis (-2-Chloroethyl) Ether	9ND	9ND	9ND	1.0
2-Chloronaphthalene	9ND	9ND	9ND	10
2-Chlorophenol	9ND	9ND	9ND	1.0
2,2'- Oxybis (1-Chloropropane)	9ND	9ND	9ND	5.0
Chrysene	9ND	9ND	**9.0J**	0.002
Dibenz (a,h) Anthracene	9ND	9ND	9ND	-
Dibenzofuran	9ND	9ND	9ND	-
3,3'- Dichlorobenzidine	9ND	9ND	9ND	5.0
2,4- Dichlorophenol	9ND	9ND	9ND	1.0
Diethylphthalate	9ND	9ND	9ND	50
Dimethyl Phthalate	9ND	9ND	9ND	50
2,4- Dimethylphenol	24ND	24ND	24ND	1.0
2,4- Dinitrophenol	9ND	9ND	9ND	1.0
2,4- Dinitrotoluene	9ND	9ND	9ND	5.0
2,6- Dinitrotoluene	9ND	9ND	9ND	5.0
Bis (2-Ethylhexyl) Phthalate	**2.0JB**	**2.0JB**	**5.0JB**	5.0

TABLE 8 Groundwater Sample Analytical Summary
Semi-Volatile Organic Compounds – Method OLM 4.2
Volunteers of America of Western New York
214 Lake Avenue Rochester, New York

Semi – volatile Organic Compounds Page 4 of 4	**VOAMW - 105** **10/31/08**	**VOAMW - 105** **10/31/08 dup.**	**VOAMW - 106** **10/30/08**	**NYSDEC** **Groundwater Standards**
Fluoranthene	9ND	9ND	**22.0**	50
Fluorene	9ND	9ND	**3.0J**	50
Hexachlorobenzene	9ND	9ND	9ND	0.04
Hexachlorobutadiene	9ND	9ND	9ND	0.5
Hexachlorocyclopentadiene	9ND	9ND	9ND	5.0
Hexachloroethane	9ND	9ND	9ND	5.0
Isophorone	9ND	9ND	9ND	5.0
2- Methylnaphthalene	9ND	9ND	9ND	-
4,6- Dinitro-2- Methylphenol	24ND	24ND	24ND	1.0
4- Chloro-3- Methylphenol	9ND	9ND	9ND	1.0
2- Methylphenol	9ND	9ND	9ND	1.0
4- Methylphenol	9ND	9ND	9ND	1.0
Naphthalene	9ND	9ND	**4.0J**	10
2- Nitroaniline	24ND	24ND	24ND	5.0
3- Nitroaniline	24ND	24ND	24ND	5.0
4- Nitroaniline	24ND	24ND	24ND	5.0
Nitrobenzene	9ND	9ND	9ND	0.4
2- Nitrophenol	9ND	9ND	9ND	1.0
4- Nitrophenol	24ND	24ND	24ND	1.0
N- Nitrosodiphenylamine	9ND	9ND	9ND	50
Di-n-octyl Phthalate	9ND	9ND	9ND	50
Pentachlorophenol	24ND	24ND	24ND	5.0
Phenanthrene	9ND	**2.0J**	**11.0J**	5.0
Phenol	9ND	9ND	9ND	1.0
4- Bromophenyl- Phenylether	9ND	9ND	9ND	-
4- Chlorophenyl- Phenylether	9ND	9ND	9ND	-
N- nitroso-di-n- Propylamine	9ND	9ND	9ND	-
Pyrene	9ND	9ND	**18.0J**	5.0
2,4,6- Trichlorophenol	9ND	9ND	9ND	1.0
2,4,5- Trichlorophenol	24ND	24ND	24ND	1.0
Total TICs Concentration and Number of TICs Detected	**2.0 JB (1)**	**9.0 J,JB,JN (4)**	**60.0 J,JB,JN, (9)**	NA

Notes: Groundwater samples collected on October 30, 2008 and October 31, 2008 by GeoQuest Environmental, Inc.
All concentrations expressed in parts per billion (ppb). Bold type indicates concentration above the laboratory detection limit and shaded concentrations exceed NYSDEC groundwater standard. See laboratory case narrative page 3 for **J**, **JN, JB** estimated values. - = No standard, ND = non-detection above detection limits.
NYSDEC groundwater standards 703.5 and June 1998 Division of Technical and Operational guidance series T.O.G.S. 1.1.1 and as amended April 2000.

TABLE 9 Groundwater Analytical Summary
Volatile Organic Compounds – Method OLM
Volunteers of America of Western New York
214 Lake Avenue Rochester, New York

VOC – 8260 Compounds Page 1 of 8	**VOAMW-101 (10/30/08)**	**VOAMWR-101 (10/30/08)**	**VOAMW-102 (10/31/08)**	**VOAMWR-102 (10/31/08)**	**VOAMW-103 (10/31/08)**	**VOAMW-104 (10/30/08)**	**NYDEC Groundwater Standard**
Acetone	**2.0JB**	10ND	10ND	**1.0JB**	**2.0JB**	**1.0JB**	50
Benzene	10ND	10ND	10ND	10ND	10ND	10ND	0.7
Bromodichloromethane	10ND	**3.0J**	10ND	10ND	10ND	10ND	50
Bromoform	10ND	10ND	10ND	10ND	10ND	10ND	50
Bromomethane	10ND	10ND	10ND	10ND	10ND	10ND	5
2- Butanone (MEK)	10ND	10ND	10ND	10ND	10ND	10ND	50
Methyl Tert- Butyl Ether	10ND	10ND	10ND	**31.0**	10ND	10ND	10
Carbon Disulfide	10ND	10ND	10ND	**0.9J**	10ND	10ND	5
Carbon Tetrachloride	10ND	10ND	10ND	10ND	10ND	10ND	5
Chlorobenzene	10ND	10ND	10ND	10ND	10ND	10ND	5
Chloroethane	10ND	10ND	10ND	10ND	10ND	10ND	5
Chloroform	10ND	**6.0J**	10ND	10ND	10ND	10ND	7
Chloromethane	10ND	10ND	10ND	10ND	10ND	10ND	5
1,2- Dibromo-3- Chloropropane	10ND	10ND	10ND	10ND	10ND	10ND	-
Cyclohexane	10ND	10ND	10ND	10ND	10ND	10ND	-
Dibromochloromethane	10ND	**1.0J**	10ND	10ND	10ND	10ND	50
1,2- Dibromoethane	10ND	10ND	10ND	10ND	10ND	10ND	0.6
1,2- Dichlorobenzene	10ND	10ND	10ND	10ND	10ND	10ND	3
1,4- Dichlorobenzene	10ND	10ND	10ND	10ND	10ND	10ND	3
1,3- Dichlorobenzene	10ND	10ND	10ND	10ND	10ND	10ND	3
Dichlorodifluoromethane	10ND	10ND	10ND	10ND	10ND	10ND	-
1,1- Dichloroethane	10ND	10ND	10ND	10ND	10ND	**0.7J**	5
1,2- Dichloroethane	10ND	10ND	10ND	10ND	10ND	10ND	5
1,1- Dichloroethene	10ND	10ND	10ND	10ND	10ND	10ND	5
Trans-1,2- Dichloroethene	10ND	10ND	10ND	10ND	10ND	10ND	5
Cis-1,2-Dichloroethene	10ND	10ND	10ND	**1.0J**	10ND	10ND	5
1,2- Dichloropropane	10ND	10ND	10ND	10ND	10ND	10ND	5
Trans-1,3- Dichloropropene	10ND	10ND	10ND	10ND	10ND	10ND	5
Cis-1,3- Dichloropropene	10ND	10ND	10ND	10ND	10ND	10ND	5
Ethylbenzene	10ND	10ND	10ND	10ND	10ND	10ND	5
2- Hexanone	10ND	10ND	10ND	10ND	10ND	10ND	50
Isopropylbenzene	10ND	10ND	10ND	10ND	10ND	10ND	-
Methyl Acetate	10ND	10ND	10ND	10ND	10ND	10ND	-
Methylcyclohexane	10ND	**0.4J**	**3.0J**	10ND	10ND	10ND	-
Methylene Chloride	10ND	10ND	10ND	10ND	10ND	10ND	5
4- Methyl-2- Pentanone	10ND	10ND	10ND	10ND	10ND	10ND	5

TABLE 9 Groundwater Analytical Summary
Volatile Organic Compounds – Method OLM
Volunteers of America of Western New York
214 Lake Avenue Rochester, New York

VOC – 8260 Compounds Page 2 of 8	**VOAMW-101 (10/30/08)**	**VOAMWR-101 (10/30/08)**	**VOAMW-102 (10/31/08)**	**VOAMWR-102 (10/31/08)**	**VOAMW-103 (10/31/08)**	**VOAMW-104 (10/30/08)**	**NYSDEC Groundwater Standard**
Styrene	10ND	10ND	10ND	10ND	10ND	10ND	5
1,1,2,2- Tetrachloroethane	10ND	10ND	10ND	10ND	10ND	10ND	5
Tetrachloroethene	10ND	10ND	10ND	10ND	10ND	10ND	5
Toluene	10ND	10ND	10ND	10ND	10ND	10ND	5
1,2,4- Trichlorobenzene	10ND	10ND	10ND	10ND	10ND	10ND	-
1,1,1- Trichloroethane	10ND	10ND	10ND	10ND	10ND	10ND	5
1,1,2- Trichloroethane	10ND	10ND	10ND	10ND	10ND	10ND	5
Trichloroethene	10ND	10ND	10ND	10ND	10ND	10ND	5
Trichlorofluoromethane	10ND	10ND	10ND	10ND	10ND	10ND	-
1,1,2-Trichloro-1,2,2- Trifluoroeth	10ND	10ND	10ND	10ND	10ND	10ND	-
Vinyl Chloride	10ND	10ND	10ND	10ND	10ND	10ND	2
M+P- Xylene	10ND	10ND	**0.3J**	10ND	10ND	10ND	5
O- Xylene	10ND	10ND	10ND	10ND	10ND	10ND	5
Tentatively Indentified Compounds Total and number detected	ND	ND	**39J,JN (5)**	**8J (1)**	ND	ND	NA

Notes:

1. NA = Not Applicable, ND = Less than laboratory detection limits, J = estimated value, JB = estimated value and compound detected in blank, concentrations shown in bold type indicate detection above laboratory limits. Concentrations in bold type and shaded exceed the NYSDEC groundwater standards.
2. - = No standards available and ND = non detection above the laboratory limits.
3. Concentrations are expressed in parts per billion (ppb) equivalent to ug/l.
4. Samples collected by GeoQuest Environmental, Inc. on October 30, 2008 and October 31, 2008 and analyzed by Columbia Analytical Services, Rochester, New York (Lab ID # 10145).
5. NYSDEC groundwater standards 703.5 and June 1998 Division of Technical and Operational guidance series T.O.G.S. 1.1.1 and as amended April 2000.

GeoQuest Environmental, Inc.

TABLE 9 Groundwater Analytical Summary
Volatile Organic Compounds – Method OLM
Volunteers of America of Western New York
214 Lake Avenue Rochester, New York

VOC – 8260 Compounds Page 3 of 8	**VOAMW-105 (10/31/08)**	**VOAMW-105 (10/31/08)dup.**	**VOAMW-106 (10/30/08)**	**TRIP BLANK (10/30/08)**	**NYDEC Groundwater Standard**
Acetone	10ND	10ND	**2.0JB**	**0.7JB**	50
Benzene	10ND	10ND	10ND	10ND	0.7
Bromodichloromethane	10ND	10ND	10ND	10ND	50
Bromoform	10ND	10ND	10ND	10ND	50
Bromomethane	10ND	10ND	10ND	10ND	5
2- Butanone (MEK)	10ND	10ND	10ND	10ND	50
Methyl Tert- Butyl Ether	10ND	10ND	10ND	10ND	10
Carbon Disulfide	10ND	10ND	10ND	10ND	5
Carbon Tetrachloride	10ND	10ND	10ND	10ND	5
Chlorobenzene	10ND	10ND	**2.0J**	10ND	5
Chloroethane	10ND	10ND	10ND	10ND	5
Chloroform	10ND	10ND	10ND	10ND	7
Chloromethane	10ND	10ND	10ND	10ND	5
1,2- Dibromo-3- Chloropropane	10ND	10ND	10ND	10ND	-
Cyclohexane	10ND	10ND	10ND	10ND	-
Dibromochloromethane	10ND	10ND	10ND	10ND	50
1,2- Dibromoethane	10ND	10ND	10ND	10ND	0.6
1,2- Dichlorobenzene	10ND	10ND	**0.4J**	10ND	3
1,4- Dichlorobenzene	10ND	10ND	10ND	10ND	3
1,3- Dichlorobenzene	10ND	10ND	10ND	10ND	3
Dichlorodifluoromethane	10ND	10ND	10ND	10ND	-
1,1- Dichloroethane	10ND	10ND	10ND	10ND	5
1,2- Dichloroethane	10ND	10ND	10ND	10ND	5
1,1- Dichloroethene	10ND	10ND	10ND	10ND	5
Trans-1,2- Dichloroethene	10ND	10ND	10ND	10ND	5
Cis-1,2-Dichloroethene	10ND	10ND	10ND	10ND	5
1,2- Dichloropropane	10ND	10ND	10ND	10ND	5
Trans-1,3- Dichloropropene	10ND	10ND	10ND	10ND	5
Cis-1,3- Dichloropropene	10ND	10ND	10ND	10ND	5
Ethylbenzene	10ND	10ND	10ND	10ND	5
2- Hexanone	10ND	10ND	10ND	10ND	50
Isopropylbenzene	10ND	10ND	10ND	10ND	-
Methyl Acetate	10ND	10ND	10ND	10ND	-
Methylcyclohexane	**0.3J**	**0.4J**	10ND	10ND	-
Methylene Chloride	10ND	10ND	10ND	10ND	5
4- Methyl-2- Pentanone	10ND	10ND	10ND	10ND	5

TABLE 9 Groundwater Analytical Summary
Volatile Organic Compounds – Method OLM
Volunteers of America of Western New York
214 Lake Avenue Rochester, New York

VOC – 8260 Compounds Page 4 of 8	**VOAMW-105 (10/31/08)**	**VOAMW-105 (10/31/08)dup.**	**VOAMW-106 (10/30/08)**	**TRIP BLANK (10/30/08)**	**NYSDEC Groundwater Standard**
Styrene	10ND	10ND	10ND	10ND	5
1,1,2,2- Tetrachloroethane	10ND	10ND	10ND	10ND	5
Tetrachloroethene	10ND	10ND	10ND	10ND	5
Toluene	**0.3J**	**0.4J**	10ND	10ND	5
1,2,4- Trichlorobenzene	10ND	10ND	10ND	10ND	-
1,1,1- Trichloroethane	10ND	10ND	10ND	10ND	5
1,1,2- Trichloroethane	10ND	10ND	10ND	10ND	5
Trichloroethene	10ND	10ND	10ND	10ND	5
Trichlorofluoromethane	10ND	10ND	10ND	10ND	-
1,1,2-Trichloro-1,2,2- Trifluoroeth	10ND	10ND	10ND	10ND	-
Vinyl Chloride	10ND	10ND	10ND	10ND	2
M+P- Xylene	10ND	10ND	10ND	10ND	5
O- Xylene	10ND	10ND	10ND	10ND	5
Tentatively Indentified Compounds Total and number detected	ND	ND	ND	ND	NA

Notes:

1. NA = Not Applicable, ND = Less than laboratory detection limits, J = estimated value, JB = estimated value and compound detected in blank, concentrations shown in bold type indicate detection above laboratory detection limits. Concentrations in bold type and shaded exceed the NYSDEC groundwater standard.
2. - = No standards available and ND = non detection above the laboratory detection limits.
3. Concentrations are expressed in parts per billion (ppb) equivalent to ug/l.
4. Samples collected by GeoQuest Environmental, Inc. on October 30, 2008 and October 31, 2008 and analyzed by Columbia Analytical Services, Rochester, New York (Lab ID # 10145).
5. NYSDEC groundwater standards 703.5 and June 1998 Division of Technical and Operational guidance series T.O.G.S. 1.1.1 and as amended April 2000.

GeoQuest Environmental, Inc.

TABLE 9 Groundwater Analytical Summary
Volatile Organic Compounds – Method OLM
Volunteers of America of Western New York
214 Lake Avenue Rochester, New York

VOC – 8260 Compounds Page 5 of 8	**VOAMW-101 (7/27/09)**	**VOAMW-101Duplicate (7/27/09)**	**VOAMWR-101 (7/27/09)**	**VOAMW-102 (7/27/09)**	**VOAMWR-102 (7/27/09)**	**VOAMW-103 (7/27/09)**	**VOAMW-104 (7/27/09)**	**NYDEC Groundwater Standard**
Acetone	**1.4J**	**3.6J**	**2.1J**	**4.2J**	**2.0J**	**1.3J**	**1.3J**	50
Benzene	10ND	10ND	10ND	10ND	10ND	10ND	10ND	0.7
Bromodichloromethane	10ND	10ND	10ND	10ND	10ND	10ND	10ND	50
Bromoform	10ND	10ND	10ND	10ND	10ND	10ND	10ND	50
Bromomethane	10ND	10ND	10ND	10ND	10ND	10ND	10ND	5
2- Butanone (MEK)	10ND	10ND	10ND	10ND	10ND	10ND	10ND	50
Methyl Tert- Butyl Ether	10ND	10ND	**1.7J**	10ND	10ND	10ND	10ND	10
Carbon Disulfide	10ND	10ND	10ND	10ND	**0.38J**	10ND	10ND	5
Carbon Tetrachloride	10ND	10ND	10ND	10ND	10ND	10ND	10ND	5
Chlorobenzene	10ND	10ND	10ND	10ND	10ND	10ND	10ND	5
Chloroethane	10ND	10ND	10ND	10ND	10ND	10ND	10ND	5
Chloroform	10ND	10ND	10ND	10ND	10ND	10ND	10ND	7
Chloromethane	10ND	10ND	10ND	10ND	10ND	10ND	10ND	5
1,2- Dibromo-3- Chloropropane	10ND	10ND	10ND	10ND	10ND	10ND	10ND	-
Cyclohexane	10ND	10ND	10ND	10ND	10ND	10ND	10ND	-
Dibromochloromethane	10ND	10ND	10ND	10ND	10ND	10ND	10ND	50
1,2- Dibromoethane	10ND	10ND	10ND	10ND	10ND	10ND	10ND	0.6
1,2- Dichlorobenzene	10ND	10ND	10ND	10ND	10ND	10ND	10ND	3
1,4- Dichlorobenzene	10ND	10ND	10ND	10ND	10ND	10ND	10ND	3
1,3- Dichlorobenzene	10ND	10ND	10ND	10ND	10ND	10ND	10ND	3
Dichlorodifluoromethane	10ND	10ND	10ND	10ND	10ND	10ND	10ND	-
1,1- Dichloroethane	10ND	10ND	**0.91J**	10ND	10ND	10ND	**0.68J**	5
1,2- Dichloroethane	10ND	10ND	10ND	10ND	10ND	10ND	10ND	5
1,1- Dichloroethene	10ND	10ND	10ND	10ND	10ND	10ND	10ND	5
Trans-1,2- Dichloroethene	10ND	10ND	**0.35J**	10ND	10ND	10ND	10ND	5
Cis-1,2-Dichloroethene	10ND	10ND	**8.2J**	10ND	10ND	10ND	10ND	5
1,2- Dichloropropane	10ND	10ND	10ND	10ND	10ND	10ND	10ND	5
Trans-1,3- Dichloropropene	10ND	10ND	10ND	10ND	10ND	10ND	10ND	5
Cis-1,3- Dichloropropene	10ND	10ND	10ND	10ND	10ND	10ND	10ND	5
Ethylbenzene	10ND	10ND	10ND	10ND	10ND	10ND	10ND	5
2- Hexanone	10ND	10ND	10ND	10ND	10ND	10ND	10ND	50
Isopropylbenzene	10ND	10ND	10ND	10ND	10ND	10ND	10ND	-
Methyl Acetate	10ND	10ND	10ND	10ND	10ND	10ND	10ND	-
Methylcyclohexane	10ND	10ND	10ND	10ND	10ND	10ND	10ND	-
Methylene Chloride	10ND	10ND	10ND	10ND	10ND	10ND	10ND	5
4- Methyl-2- Pentanone	10ND	10ND	10ND	10ND	10ND	10ND	10ND	5

TABLE 9 Groundwater Analytical Summary
Volatile Organic Compounds – Method OLM
Volunteers of America of Western New York
214 Lake Avenue Rochester, New York

VOC – 8260 Compounds Page 6 of 8	**VOAMW-101 (7/27/09)**	**VOAMW-101 Duplicate (7/27/09)**	**VOAMWR-101 (7/27/09)**	**VOAMW-102 (7/27/09)**	**VOAMWR-102 (7/27/09)**	**VOAMW-103 (7/27/09)**	**VOAMW-104 (7/27/09)**	**NYSDEC Groundwater Standard**
Styrene	10ND	10ND	10ND	10ND	10ND	10ND	10ND	5
1,1,2,2- Tetrachloroethane	10ND	10ND	10ND	10ND	10ND	10ND	10ND	5
Tetrachloroethene	10ND	10ND	10ND	10ND	10ND	10ND	10ND	5
Toluene	10ND	10ND	10ND	10ND	10ND	10ND	10ND	5
1,2,4- Trichlorobenzene	10ND	10ND	10ND	10ND	10ND	10ND	10ND	-
1,1,1- Trichloroethane	10ND	10ND	10ND	10ND	10ND	10ND	10ND	5
1,1,2- Trichloroethane	10ND	10ND	10ND	10ND	10ND	10ND	10ND	5
Trichloroethene	10ND	10ND	10ND	10ND	10ND	10ND	10ND	5
Trichlorofluoromethane	10ND	10ND	10ND	10ND	10ND	10ND	10ND	-
1,1,2-Trichloro-1,2,2- Trifluoroeth	10ND	10ND	10ND	10ND	10ND	10ND	10ND	-
Vinyl Chloride	10ND	10ND	10ND	10ND	10ND	10ND	10ND	2
M+P- Xylene	10ND	10ND	10ND	10ND	10ND	10ND	10ND	5
O- Xylene	10ND	10ND	10ND	10ND	10ND	10ND	10ND	5
Tentatively Indentified Compounds Total and number detected	ND	ND	ND	**6.1JN (1)**	**9.4JN (1)**	ND	ND	NA

Notes:

1. NA = Not Applicable, ND = Less than laboratory detection limits, J = estimated value, JB = estimated value and compound detected in blank, concentrations shown in bold type indicate detection above laboratory limits. Concentrations in bold type and shaded exceed the NYSDEC groundwater standards.
2. - = No standards available and ND = non detection above the laboratory limits.
3. Concentrations are expressed in parts per billion (ppb) equivalent to ug/l.
4. Samples collected by GeoQuest Environmental, Inc. on July 27, 2009 and analyzed by Columbia Analytical Services, Rochester, New York (Lab ID # 10145).
5. NYSDEC groundwater standards 703.5 and June 1998 Division of Technical and Operational guidance series T.O.G.S. 1.1.1 and as amended April 2000.

GeoQuest Environmental, Inc.

TABLE 9 Groundwater Analytical Summary
Volatile Organic Compounds – Method OLM
Volunteers of America of Western New York
214 Lake Avenue Rochester, New York

VOC – 8260 Compounds Page 7 of 8	**VOAMW-105 (7/27/09)**	**VOAMW-106 (7/27/09)**	**NYDEC Groundwater Standard**
Acetone	**2.6J**	**1.5J**	50
Benzene	10ND	10ND	0.7
Bromodichloromethane	10ND	10ND	50
Bromoform	10ND	10ND	50
Bromomethane	10ND	10ND	5
2- Butanone (MEK)	10ND	10ND	50
Methyl Tert- Butyl Ether	10ND	**0.41J**	10
Carbon Disulfide	10ND	10ND	5
Carbon Tetrachloride	10ND	10ND	5
Chlorobenzene	10ND	**22**	5
Chloroethane	10ND	10ND	5
Chloroform	10ND	10ND	7
Chloromethane	10ND	10ND	5
1,2- Dibromo-3- Chloropropane	10ND	10ND	-
Cyclohexane	10ND	10ND	-
Dibromochloromethane	10ND	10ND	50
1,2- Dibromoethane	10ND	10ND	0.6
1,2- Dichlorobenzene	10ND	**1.7J**	3
1,4- Dichlorobenzene	10ND	**1.2J**	3
1,3- Dichlorobenzene	10ND	10ND	3
Dichlorodifluoromethane	10ND	10ND	-
1,1- Dichloroethane	10ND	**0.37J**	5
1,2- Dichloroethane	10ND	10ND	5
1,1- Dichloroethene	10ND	10ND	5
Trans-1,2- Dichloroethene	10ND	10ND	5
Cis-1,2-Dichloroethene	10ND	10ND	5
1,2- Dichloropropane	10ND	10ND	5
Trans-1,3- Dichloropropene	10ND	10ND	5
Cis-1,3- Dichloropropene	10ND	10ND	5
Ethylbenzene	10ND	10ND	5
2- Hexanone	10ND	10ND	50
Isopropylbenzene	10ND	10ND	-
Methyl Acetate	10ND	10ND	-
Methylcyclohexane	10ND	10ND	-
Methylene Chloride	10ND	10ND	5
4- Methyl-2- Pentanone	10ND	10ND	5

TABLE 9 Groundwater Analytical Summary
Volatile Organic Compounds – Method OLM
Volunteers of America of Western New York
214 Lake Avenue Rochester, New York

VOC – 8260 Compounds Page 8 of 8	**VOAMW-105 (7/27/09)**	**VOAMW-106 (7/27/09)**	**NYSDEC Groundwater Standard**
Styrene	10ND	10ND	5
1,1,2,2- Tetrachloroethane	10ND	10ND	5
Tetrachloroethene	10ND	10ND	5
Toluene	10ND	10ND	5
1,2,4- Trichlorobenzene	10ND	10ND	-
1,1,1- Trichloroethane	10ND	10ND	5
1,1,2- Trichloroethane	10ND	10ND	5
Trichloroethene	10ND	10ND	5
Trichlorofluoromethane	10ND	10ND	-
1,1,2-Trichloro-1,2,2- Trifluoroeth	10ND	10ND	-
Vinyl Chloride	10ND	10ND	2
M+P- Xylene	10ND	10ND	5
O- Xylene	10ND	10ND	5
Tentatively Indentified Compounds Total and number detected	ND	ND	NA

Notes:

1. NA = Not Applicable, ND = Less than laboratory detection limits, J = estimated value, JB = estimated value and compound detected in blank, concentrations shown in bold type indicate detection above laboratory limits. Concentrations in bold type and shaded exceed the NYSDEC groundwater standard.
2. - = No standards available and ND = non detection above the laboratory detection limits.
3. Concentrations are expressed in parts per billion (ppb) equivalent to ug/l.
4. Samples collected by GeoQuest Environmental, Inc. on July 27, 2009 and analyzed by Columbia Analytical Services, Rochester, New York (Lab ID # 10145).
5. NYSDEC groundwater standards 703.5 and June 1998 Division of Technical and Operational guidance series T.O.G.S. 1.1.1 and as amended April 2000.

GeoQuest Environmental, Inc.

APPENDIX 4

280 E. Broad Street
Rochester, NY 14604

TEL: 585.232.5135
www.bergmannpc.com

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier:	MW-103		
Lab Sample ID:	191302-01	**Date Sampled:**	4/2/2019
Matrix:	Groundwater	**Date Received:**	4/2/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.000637**	mg/L	D	4/10/2019 08:58

Method Reference(s): EPA 7470A
Preparation Date: 4/9/2019
Data File: Hg190410A

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Thursday, April 18, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier:	MW-103		
Lab Sample ID:	191302-01	**Date Sampled:**	4/2/2019
Matrix:	Groundwater	**Date Received:**	4/2/2019

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**0.0862**	mg/L	J	4/17/2019 08:52
Antimony	< 0.0600	mg/L		4/17/2019 08:52
Arsenic	< 0.0100	mg/L		4/17/2019 08:52
Barium	**0.129**	mg/L		4/17/2019 08:52
Beryllium	< 0.00500	mg/L		4/17/2019 16:01
Cadmium	< 0.00500	mg/L		4/17/2019 08:52
Calcium	**108**	mg/L		4/17/2019 08:52
Chromium	< 0.0100	mg/L		4/17/2019 08:52
Cobalt	< 0.0500	mg/L		4/17/2019 08:52
Copper	**0.0219**	mg/L	J	4/17/2019 08:52
Iron	**2.25**	mg/L		4/17/2019 08:52
Lead	**0.00680**	mg/L		4/17/2019 16:01
Magnesium	**26.0**	mg/L		4/17/2019 08:52
Manganese	**0.360**	mg/L		4/17/2019 08:52
Nickel	< 0.0400	mg/L		4/17/2019 08:52
Potassium	**10.2**	mg/L		4/17/2019 08:52
Selenium	< 0.0200	mg/L		4/17/2019 08:52
Silver	< 0.0100	mg/L		4/17/2019 08:52
Sodium	**114**	mg/L		4/17/2019 08:52
Thallium	< 0.0250	mg/L		4/17/2019 08:52
Vanadium	< 0.0250	mg/L		4/17/2019 08:52
Zinc	**0.0438**	mg/L	J	4/17/2019 08:52

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 4/3/2019
Data File: 190417A

Report Prepared Thursday, April 18, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MW-103
Lab Sample ID: 191302-01 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		4/11/2019 13:23
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		4/11/2019 13:23
1,2,4-Trichlorobenzene	< 10.0	ug/L		4/11/2019 13:23
1,2-Dichlorobenzene	< 10.0	ug/L		4/11/2019 13:23
1,3-Dichlorobenzene	< 10.0	ug/L		4/11/2019 13:23
1,4-Dichlorobenzene	< 10.0	ug/L		4/11/2019 13:23
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		4/11/2019 13:23
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		4/11/2019 13:23
2,4,5-Trichlorophenol	< 20.0	ug/L		4/11/2019 13:23
2,4,6-Trichlorophenol	< 10.0	ug/L		4/11/2019 13:23
2,4-Dichlorophenol	< 10.0	ug/L		4/11/2019 13:23
2,4-Dimethylphenol	< 20.0	ug/L		4/11/2019 13:23
2,4-Dinitrophenol	< 20.0	ug/L		4/11/2019 13:23
2,4-Dinitrotoluene	< 10.0	ug/L		4/11/2019 13:23
2,6-Dinitrotoluene	< 10.0	ug/L		4/11/2019 13:23
2-Chloronaphthalene	< 10.0	ug/L		4/11/2019 13:23
2-Chlorophenol	< 10.0	ug/L		4/11/2019 13:23
2-Methylnapthalene	< 10.0	ug/L		4/11/2019 13:23
2-Methylphenol	< 10.0	ug/L		4/11/2019 13:23
2-Nitroaniline	< 20.0	ug/L		4/11/2019 13:23
2-Nitrophenol	< 10.0	ug/L		4/11/2019 13:23
3&4-Methylphenol	< 10.0	ug/L		4/11/2019 13:23
3,3'-Dichlorobenzidine	< 10.0	ug/L		4/11/2019 13:23
3-Nitroaniline	< 20.0	ug/L		4/11/2019 13:23
4,6-Dinitro-2-methylphenol	< 20.0	ug/L		4/11/2019 13:23
4-Bromophenyl phenyl ether	< 10.0	ug/L		4/11/2019 13:23
4-Chloro-3-methylphenol	< 10.0	ug/L		4/11/2019 13:23

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MW-103
Lab Sample ID: 191302-01 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

4-Chloroaniline	< 10.0	ug/L	4/11/2019	13:23
4-Chlorophenyl phenyl ether	< 10.0	ug/L	4/11/2019	13:23
4-Nitroaniline	< 20.0	ug/L	4/11/2019	13:23
4-Nitrophenol	< 20.0	ug/L	4/11/2019	13:23
Acenaphthene	< 10.0	ug/L	4/11/2019	13:23
Acenaphthylene	< 10.0	ug/L	4/11/2019	13:23
Acetophenone	< 10.0	ug/L	4/11/2019	13:23
Anthracene	< 10.0	ug/L	4/11/2019	13:23
Atrazine	< 10.0	ug/L	4/11/2019	13:23
Benzaldehyde	< 10.0	ug/L	4/11/2019	13:23
Benzo (a) anthracene	< 10.0	ug/L	4/11/2019	13:23
Benzo (a) pyrene	< 10.0	ug/L	4/11/2019	13:23
Benzo (b) fluoranthene	< 10.0	ug/L	4/11/2019	13:23
Benzo (g,h,i) perylene	< 10.0	ug/L	4/11/2019	13:23
Benzo (k) fluoranthene	< 10.0	ug/L	4/11/2019	13:23
Bis (2-chloroethoxy) methane	< 10.0	ug/L	4/11/2019	13:23
Bis (2-chloroethyl) ether	< 10.0	ug/L	4/11/2019	13:23
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	4/11/2019	13:23
Butylbenzylphthalate	< 10.0	ug/L	4/11/2019	13:23
Caprolactam	< 10.0	ug/L	4/11/2019	13:23
Carbazole	< 10.0	ug/L	4/11/2019	13:23
Chrysene	< 10.0	ug/L	4/11/2019	13:23
Dibenz (a,h) anthracene	< 10.0	ug/L	4/11/2019	13:23
Dibenzofuran	< 10.0	ug/L	4/11/2019	13:23
Diethyl phthalate	< 10.0	ug/L	4/11/2019	13:23
Dimethyl phthalate	< 20.0	ug/L	4/11/2019	13:23
Di-n-butyl phthalate	< 10.0	ug/L	4/11/2019	13:23
Di-n-octylphthalate	< 10.0	ug/L	4/11/2019	13:23
Fluoranthene	< 10.0	ug/L	4/11/2019	13:23
Fluorene	< 10.0	ug/L	4/11/2019	13:23

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MW-103
Lab Sample ID: 191302-01 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Hexachlorobenzene	< 10.0	ug/L	4/11/2019	13:23
Hexachlorobutadiene	< 10.0	ug/L	4/11/2019	13:23
Hexachlorocyclopentadiene	< 10.0	ug/L	4/11/2019	13:23
Hexachloroethane	< 10.0	ug/L	4/11/2019	13:23
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	4/11/2019	13:23
Isophorone	< 10.0	ug/L	4/11/2019	13:23
Naphthalene	< 10.0	ug/L	4/11/2019	13:23
Nitrobenzene	< 10.0	ug/L	4/11/2019	13:23
N-Nitroso-di-n-propylamine	< 10.0	ug/L	4/11/2019	13:23
N-Nitrosodiphenylamine	< 10.0	ug/L	4/11/2019	13:23
Pentachlorophenol	< 20.0	ug/L	4/11/2019	13:23
Phenanthrene	< 10.0	ug/L	4/11/2019	13:23
Phenol	< 10.0	ug/L	4/11/2019	13:23
Pyrene	< 10.0	ug/L	4/11/2019	13:23

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**92.7**	47.9 - 130		4/11/2019	13:23
2-Fluorobiphenyl	**36.5**	30.8 - 101		4/11/2019	13:23
2-Fluorophenol	**43.0**	10 - 113		4/11/2019	13:23
Nitrobenzene-d5	**61.9**	48.6 - 102		4/11/2019	13:23
Phenol-d5	**32.2**	10 - 111		4/11/2019	13:23
Terphenyl-d14	**93.6**	57.2 - 111		4/11/2019	13:23

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 4/5/2019
Data File: B36031.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier:	MW-103		
Lab Sample ID:	191302-01	**Date Sampled:**	4/2/2019
Matrix:	Groundwater	**Date Received:**	4/2/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		4/4/2019 20:58
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		4/4/2019 20:58
1,1,2-Trichloroethane	< 2.00	ug/L		4/4/2019 20:58
1,1-Dichloroethane	< 2.00	ug/L		4/4/2019 20:58
1,1-Dichloroethene	< 2.00	ug/L		4/4/2019 20:58
1,2,3-Trichlorobenzene	< 5.00	ug/L		4/4/2019 20:58
1,2,4-Trichlorobenzene	< 5.00	ug/L		4/4/2019 20:58
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		4/4/2019 20:58
1,2-Dibromoethane	< 2.00	ug/L		4/4/2019 20:58
1,2-Dichlorobenzene	< 2.00	ug/L		4/4/2019 20:58
1,2-Dichloroethane	< 2.00	ug/L		4/4/2019 20:58
1,2-Dichloropropane	< 2.00	ug/L		4/4/2019 20:58
1,3-Dichlorobenzene	< 2.00	ug/L		4/4/2019 20:58
1,4-Dichlorobenzene	< 2.00	ug/L		4/4/2019 20:58
1,4-Dioxane	< 20.0	ug/L		4/4/2019 20:58
2-Butanone	< 10.0	ug/L		4/4/2019 20:58
2-Hexanone	< 5.00	ug/L		4/4/2019 20:58
4-Methyl-2-pentanone	< 5.00	ug/L		4/4/2019 20:58
Acetone	< 10.0	ug/L		4/4/2019 20:58
Benzene	< 1.00	ug/L		4/4/2019 20:58
Bromochloromethane	< 5.00	ug/L		4/4/2019 20:58
Bromodichloromethane	< 2.00	ug/L		4/4/2019 20:58
Bromoform	< 5.00	ug/L		4/4/2019 20:58
Bromomethane	< 2.00	ug/L		4/4/2019 20:58
Carbon disulfide	< 2.00	ug/L		4/4/2019 20:58
Carbon Tetrachloride	< 2.00	ug/L		4/4/2019 20:58
Chlorobenzene	< 2.00	ug/L		4/4/2019 20:58

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MW-103
Lab Sample ID: 191302-01 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Chloroethane	< 2.00	ug/L	4/4/2019	20:58
Chloroform	< 2.00	ug/L	4/4/2019	20:58
Chloromethane	< 2.00	ug/L	4/4/2019	20:58
cis-1,2-Dichloroethene	< 2.00	ug/L	4/4/2019	20:58
cis-1,3-Dichloropropene	< 2.00	ug/L	4/4/2019	20:58
Cyclohexane	< 10.0	ug/L	4/4/2019	20:58
Dibromochloromethane	< 2.00	ug/L	4/4/2019	20:58
Dichlorodifluoromethane	< 2.00	ug/L	4/4/2019	20:58
Ethylbenzene	< 2.00	ug/L	4/4/2019	20:58
Freon 113	< 2.00	ug/L	4/4/2019	20:58
Isopropylbenzene	< 2.00	ug/L	4/4/2019	20:58
m,p-Xylene	< 2.00	ug/L	4/4/2019	20:58
Methyl acetate	< 2.00	ug/L	4/4/2019	20:58
Methyl tert-butyl Ether	< 2.00	ug/L	4/4/2019	20:58
Methylcyclohexane	< 2.00	ug/L	4/4/2019	20:58
Methylene chloride	< 5.00	ug/L	4/4/2019	20:58
o-Xylene	< 2.00	ug/L	4/4/2019	20:58
Styrene	< 5.00	ug/L	4/4/2019	20:58
Tetrachloroethene	< 2.00	ug/L	4/4/2019	20:58
Toluene	< 2.00	ug/L	4/4/2019	20:58
trans-1,2-Dichloroethene	< 2.00	ug/L	4/4/2019	20:58
trans-1,3-Dichloropropene	< 2.00	ug/L	4/4/2019	20:58
Trichloroethene	< 2.00	ug/L	4/4/2019	20:58
Trichlorofluoromethane	< 2.00	ug/L	4/4/2019	20:58
Vinyl chloride	< 2.00	ug/L	4/4/2019	20:58

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MW-103
Lab Sample ID: 191302-01 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**130**	71.4 - 133		4/4/2019	20:58
4-Bromofluorobenzene	**81.9**	61.7 - 126		4/4/2019	20:58
Pentafluorobenzene	**88.8**	87.4 - 109		4/4/2019	20:58
Toluene-D8	**89.4**	82.3 - 112		4/4/2019	20:58

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x59742.D

Report Prepared Thursday, April 18, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier:	Blind Dup		
Lab Sample ID:	191302-02	**Date Sampled:**	4/2/2019
Matrix:	Groundwater	**Date Received:**	4/2/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.000523**	mg/L		4/10/2019 09:06

Method Reference(s): EPA 7470A
Preparation Date: 4/9/2019
Data File: Hg190410A

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier:	Blind Dup		
Lab Sample ID:	191302-02	**Date Sampled:**	4/2/2019
Matrix:	Groundwater	**Date Received:**	4/2/2019

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	< 0.100	mg/L		4/17/2019 09:13
Antimony	< 0.0600	mg/L		4/17/2019 09:13
Arsenic	< 0.0100	mg/L		4/17/2019 09:13
Barium	**0.129**	mg/L		4/17/2019 09:13
Beryllium	< 0.00500	mg/L		4/17/2019 16:31
Cadmium	< 0.00500	mg/L		4/17/2019 09:13
Calcium	**107**	mg/L		4/17/2019 09:13
Chromium	< 0.0100	mg/L		4/17/2019 09:13
Cobalt	< 0.0500	mg/L		4/17/2019 09:13
Copper	< 0.0400	mg/L		4/17/2019 09:13
Iron	**2.14**	mg/L		4/17/2019 09:13
Lead	**0.00730**	mg/L	J	4/17/2019 16:31
Magnesium	**26.1**	mg/L		4/17/2019 09:13
Manganese	**0.361**	mg/L		4/17/2019 09:13
Nickel	< 0.0400	mg/L		4/17/2019 09:13
Potassium	**9.97**	mg/L		4/17/2019 09:13
Selenium	< 0.0200	mg/L		4/17/2019 09:13
Silver	< 0.0100	mg/L		4/17/2019 09:13
Sodium	**113**	mg/L		4/17/2019 09:13
Thallium	< 0.0250	mg/L		4/17/2019 09:13
Vanadium	< 0.0250	mg/L		4/17/2019 09:13
Zinc	**0.0422**	mg/L	J	4/17/2019 09:13

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 4/3/2019
Data File: 190417A

Report Prepared Thursday, April 18, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: Blind Dup
Lab Sample ID: 191302-02 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		4/11/2019 14:52
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		4/11/2019 14:52
1,2,4-Trichlorobenzene	< 10.0	ug/L		4/11/2019 14:52
1,2-Dichlorobenzene	< 10.0	ug/L		4/11/2019 14:52
1,3-Dichlorobenzene	< 10.0	ug/L		4/11/2019 14:52
1,4-Dichlorobenzene	< 10.0	ug/L		4/11/2019 14:52
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		4/11/2019 14:52
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		4/11/2019 14:52
2,4,5-Trichlorophenol	< 20.0	ug/L		4/11/2019 14:52
2,4,6-Trichlorophenol	< 10.0	ug/L		4/11/2019 14:52
2,4-Dichlorophenol	< 10.0	ug/L		4/11/2019 14:52
2,4-Dimethylphenol	< 20.0	ug/L		4/11/2019 14:52
2,4-Dinitrophenol	< 20.0	ug/L		4/11/2019 14:52
2,4-Dinitrotoluene	< 10.0	ug/L		4/11/2019 14:52
2,6-Dinitrotoluene	< 10.0	ug/L		4/11/2019 14:52
2-Chloronaphthalene	< 10.0	ug/L		4/11/2019 14:52
2-Chlorophenol	< 10.0	ug/L		4/11/2019 14:52
2-Methylnapthalene	< 10.0	ug/L		4/11/2019 14:52
2-Methylphenol	< 10.0	ug/L		4/11/2019 14:52
2-Nitroaniline	< 20.0	ug/L		4/11/2019 14:52
2-Nitrophenol	< 10.0	ug/L		4/11/2019 14:52
3&4-Methylphenol	< 10.0	ug/L		4/11/2019 14:52
3,3'-Dichlorobenzidine	< 10.0	ug/L		4/11/2019 14:52
3-Nitroaniline	< 20.0	ug/L		4/11/2019 14:52
4,6-Dinitro-2-methylphenol	< 20.0	ug/L		4/11/2019 14:52
4-Bromophenyl phenyl ether	< 10.0	ug/L		4/11/2019 14:52
4-Chloro-3-methylphenol	< 10.0	ug/L		4/11/2019 14:52

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier:	Blind Dup		
Lab Sample ID:	191302-02	**Date Sampled:**	4/2/2019
Matrix:	Groundwater	**Date Received:**	4/2/2019

4-Chloroaniline	< 10.0	ug/L	4/11/2019	14:52
4-Chlorophenyl phenyl ether	< 10.0	ug/L	4/11/2019	14:52
4-Nitroaniline	< 20.0	ug/L	4/11/2019	14:52
4-Nitrophenol	< 20.0	ug/L	4/11/2019	14:52
Acenaphthene	< 10.0	ug/L	4/11/2019	14:52
Acenaphthylene	< 10.0	ug/L	4/11/2019	14:52
Acetophenone	< 10.0	ug/L	4/11/2019	14:52
Anthracene	< 10.0	ug/L	4/11/2019	14:52
Atrazine	< 10.0	ug/L	4/11/2019	14:52
Benzaldehyde	< 10.0	ug/L	4/11/2019	14:52
Benzo (a) anthracene	< 10.0	ug/L	4/11/2019	14:52
Benzo (a) pyrene	< 10.0	ug/L	4/11/2019	14:52
Benzo (b) fluoranthene	< 10.0	ug/L	4/11/2019	14:52
Benzo (g,h,i) perylene	< 10.0	ug/L	4/11/2019	14:52
Benzo (k) fluoranthene	< 10.0	ug/L	4/11/2019	14:52
Bis (2-chloroethoxy) methane	< 10.0	ug/L	4/11/2019	14:52
Bis (2-chloroethyl) ether	< 10.0	ug/L	4/11/2019	14:52
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	4/11/2019	14:52
Butylbenzylphthalate	< 10.0	ug/L	4/11/2019	14:52
Caprolactam	< 10.0	ug/L	4/11/2019	14:52
Carbazole	< 10.0	ug/L	4/11/2019	14:52
Chrysene	< 10.0	ug/L	4/11/2019	14:52
Dibenz (a,h) anthracene	< 10.0	ug/L	4/11/2019	14:52
Dibenzofuran	< 10.0	ug/L	4/11/2019	14:52
Diethyl phthalate	< 10.0	ug/L	4/11/2019	14:52
Dimethyl phthalate	< 20.0	ug/L	4/11/2019	14:52
Di-n-butyl phthalate	< 10.0	ug/L	4/11/2019	14:52
Di-n-octylphthalate	< 10.0	ug/L	4/11/2019	14:52
Fluoranthene	< 10.0	ug/L	4/11/2019	14:52
Fluorene	< 10.0	ug/L	4/11/2019	14:52

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: Blind Dup
Lab Sample ID: 191302-02 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Hexachlorobenzene	< 10.0	ug/L	4/11/2019	14:52
Hexachlorobutadiene	< 10.0	ug/L	4/11/2019	14:52
Hexachlorocyclopentadiene	< 10.0	ug/L	4/11/2019	14:52
Hexachloroethane	< 10.0	ug/L	4/11/2019	14:52
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	4/11/2019	14:52
Isophorone	< 10.0	ug/L	4/11/2019	14:52
Naphthalene	< 10.0	ug/L	4/11/2019	14:52
Nitrobenzene	< 10.0	ug/L	4/11/2019	14:52
N-Nitroso-di-n-propylamine	< 10.0	ug/L	4/11/2019	14:52
N-Nitrosodiphenylamine	< 10.0	ug/L	4/11/2019	14:52
Pentachlorophenol	< 20.0	ug/L	4/11/2019	14:52
Phenanthrene	< 10.0	ug/L	4/11/2019	14:52
Phenol	< 10.0	ug/L	4/11/2019	14:52
Pyrene	< 10.0	ug/L	4/11/2019	14:52

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**88.6**	47.9 - 130		4/11/2019	14:52
2-Fluorobiphenyl	**52.8**	30.8 - 101		4/11/2019	14:52
2-Fluorophenol	**42.5**	10 - 113		4/11/2019	14:52
Nitrobenzene-d5	**73.5**	48.6 - 102		4/11/2019	14:52
Phenol-d5	**31.7**	10 - 111		4/11/2019	14:52
Terphenyl-d14	**98.8**	57.2 - 111		4/11/2019	14:52

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 4/5/2019
Data File: B36034.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier:	Blind Dup		
Lab Sample ID:	191302-02	**Date Sampled:**	4/2/2019
Matrix:	Groundwater	**Date Received:**	4/2/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		4/11/2019 18:45
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		4/11/2019 18:45
1,1,2-Trichloroethane	< 2.00	ug/L		4/11/2019 18:45
1,1-Dichloroethane	< 2.00	ug/L		4/11/2019 18:45
1,1-Dichloroethene	< 2.00	ug/L		4/11/2019 18:45
1,2,3-Trichlorobenzene	< 5.00	ug/L		4/11/2019 18:45
1,2,4-Trichlorobenzene	< 5.00	ug/L		4/11/2019 18:45
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		4/11/2019 18:45
1,2-Dibromoethane	< 2.00	ug/L		4/11/2019 18:45
1,2-Dichlorobenzene	< 2.00	ug/L		4/11/2019 18:45
1,2-Dichloroethane	< 2.00	ug/L		4/11/2019 18:45
1,2-Dichloropropane	< 2.00	ug/L		4/11/2019 18:45
1,3-Dichlorobenzene	< 2.00	ug/L		4/11/2019 18:45
1,4-Dichlorobenzene	< 2.00	ug/L		4/11/2019 18:45
1,4-Dioxane	< 20.0	ug/L		4/11/2019 18:45
2-Butanone	< 10.0	ug/L		4/11/2019 18:45
2-Hexanone	< 5.00	ug/L		4/11/2019 18:45
4-Methyl-2-pentanone	< 5.00	ug/L		4/11/2019 18:45
Acetone	< 10.0	ug/L		4/11/2019 18:45
Benzene	< 1.00	ug/L		4/11/2019 18:45
Bromochloromethane	< 5.00	ug/L		4/11/2019 18:45
Bromodichloromethane	< 2.00	ug/L		4/11/2019 18:45
Bromoform	< 5.00	ug/L		4/11/2019 18:45
Bromomethane	< 2.00	ug/L		4/11/2019 18:45
Carbon disulfide	< 2.00	ug/L		4/11/2019 18:45
Carbon Tetrachloride	< 2.00	ug/L		4/11/2019 18:45
Chlorobenzene	< 2.00	ug/L		4/11/2019 18:45

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: Blind Dup
Lab Sample ID: 191302-02 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Chloroethane	< 2.00	ug/L	4/11/2019	18:45
Chloroform	< 2.00	ug/L	4/11/2019	18:45
Chloromethane	< 2.00	ug/L	4/11/2019	18:45
cis-1,2-Dichloroethene	< 2.00	ug/L	4/11/2019	18:45
cis-1,3-Dichloropropene	< 2.00	ug/L	4/11/2019	18:45
Cyclohexane	< 10.0	ug/L	4/11/2019	18:45
Dibromochloromethane	< 2.00	ug/L	4/11/2019	18:45
Dichlorodifluoromethane	< 2.00	ug/L	4/11/2019	18:45
Ethylbenzene	< 2.00	ug/L	4/11/2019	18:45
Freon 113	< 2.00	ug/L	4/11/2019	18:45
Isopropylbenzene	< 2.00	ug/L	4/11/2019	18:45
m,p-Xylene	< 2.00	ug/L	4/11/2019	18:45
Methyl acetate	< 2.00	ug/L	4/11/2019	18:45
Methyl tert-butyl Ether	< 2.00	ug/L	4/11/2019	18:45
Methylcyclohexane	< 2.00	ug/L	4/11/2019	18:45
Methylene chloride	< 5.00	ug/L	4/11/2019	18:45
o-Xylene	< 2.00	ug/L	4/11/2019	18:45
Styrene	< 5.00	ug/L	4/11/2019	18:45
Tetrachloroethene	< 2.00	ug/L	4/11/2019	18:45
Toluene	< 2.00	ug/L	4/11/2019	18:45
trans-1,2-Dichloroethene	< 2.00	ug/L	4/11/2019	18:45
trans-1,3-Dichloropropene	< 2.00	ug/L	4/11/2019	18:45
Trichloroethene	< 2.00	ug/L	4/11/2019	18:45
Trichlorofluoromethane	< 2.00	ug/L	4/11/2019	18:45
Vinyl chloride	< 2.00	ug/L	4/11/2019	18:45

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: Blind Dup
Lab Sample ID: 191302-02 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**152**	71.4 - 133	*	4/11/2019	18:45
4-Bromofluorobenzene	**79.3**	61.7 - 126		4/11/2019	18:45
Pentafluorobenzene	**86.5**	87.4 - 109	*	4/11/2019	18:45
Toluene-D8	**85.7**	82.3 - 112		4/11/2019	18:45

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x59917.D

Report Prepared Thursday, April 18, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier:	MW-107		
Lab Sample ID:	191302-03	**Date Sampled:**	4/2/2019
Matrix:	Groundwater	**Date Received:**	4/2/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		4/10/2019 09:09

Method Reference(s): EPA 7470A
Preparation Date: 4/9/2019
Data File: Hg190410A

Report Prepared Thursday, April 18, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier:	MW-107		
Lab Sample ID:	191302-03	**Date Sampled:**	4/2/2019
Matrix:	Groundwater	**Date Received:**	4/2/2019

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	< 0.100	mg/L		4/17/2019 09:18
Antimony	< 0.0600	mg/L		4/17/2019 09:18
Arsenic	< 0.0100	mg/L		4/17/2019 09:18
Barium	**0.107**	mg/L		4/17/2019 09:18
Beryllium	< 0.00500	mg/L		4/16/2019 18:26
Cadmium	< 0.00500	mg/L		4/17/2019 09:18
Calcium	**219**	mg/L		4/17/2019 09:18
Chromium	< 0.0100	mg/L		4/17/2019 09:18
Cobalt	< 0.0500	mg/L		4/17/2019 09:18
Copper	< 0.0400	mg/L		4/17/2019 09:18
Iron	**4.31**	mg/L		4/17/2019 09:18
Lead	< 0.0100	mg/L		4/17/2019 09:18
Magnesium	**30.6**	mg/L		4/17/2019 09:18
Manganese	**0.418**	mg/L		4/17/2019 09:18
Nickel	< 0.0400	mg/L		4/17/2019 09:18
Potassium	**7.29**	mg/L		4/17/2019 09:18
Selenium	< 0.0200	mg/L		4/17/2019 09:18
Silver	< 0.0100	mg/L		4/17/2019 09:18
Sodium	**56.8**	mg/L		4/17/2019 09:18
Thallium	< 0.0250	mg/L		4/17/2019 09:18
Vanadium	< 0.0250	mg/L		4/17/2019 09:18
Zinc	< 0.0600	mg/L		4/17/2019 09:18

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 4/3/2019
Data File: 190417A

Report Prepared Thursday, April 18, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MW-107
Lab Sample ID: 191302-03 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		4/11/2019 15:22
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		4/11/2019 15:22
1,2,4-Trichlorobenzene	< 10.0	ug/L		4/11/2019 15:22
1,2-Dichlorobenzene	< 10.0	ug/L		4/11/2019 15:22
1,3-Dichlorobenzene	< 10.0	ug/L		4/11/2019 15:22
1,4-Dichlorobenzene	< 10.0	ug/L		4/11/2019 15:22
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		4/11/2019 15:22
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		4/11/2019 15:22
2,4,5-Trichlorophenol	< 20.0	ug/L		4/11/2019 15:22
2,4,6-Trichlorophenol	< 10.0	ug/L		4/11/2019 15:22
2,4-Dichlorophenol	< 10.0	ug/L		4/11/2019 15:22
2,4-Dimethylphenol	< 20.0	ug/L		4/11/2019 15:22
2,4-Dinitrophenol	< 20.0	ug/L		4/11/2019 15:22
2,4-Dinitrotoluene	< 10.0	ug/L		4/11/2019 15:22
2,6-Dinitrotoluene	< 10.0	ug/L		4/11/2019 15:22
2-Chloronaphthalene	< 10.0	ug/L		4/11/2019 15:22
2-Chlorophenol	< 10.0	ug/L		4/11/2019 15:22
2-Methylnapthalene	< 10.0	ug/L		4/11/2019 15:22
2-Methylphenol	< 10.0	ug/L		4/11/2019 15:22
2-Nitroaniline	< 20.0	ug/L		4/11/2019 15:22
2-Nitrophenol	< 10.0	ug/L		4/11/2019 15:22
3&4-Methylphenol	< 10.0	ug/L		4/11/2019 15:22
3,3'-Dichlorobenzidine	< 10.0	ug/L		4/11/2019 15:22
3-Nitroaniline	< 20.0	ug/L		4/11/2019 15:22
4,6-Dinitro-2-methylphenol	< 20.0	ug/L		4/11/2019 15:22
4-Bromophenyl phenyl ether	< 10.0	ug/L		4/11/2019 15:22
4-Chloro-3-methylphenol	< 10.0	ug/L		4/11/2019 15:22

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MW-107
Lab Sample ID: 191302-03 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

4-Chloroaniline	< 10.0	ug/L	4/11/2019	15:22
4-Chlorophenyl phenyl ether	< 10.0	ug/L	4/11/2019	15:22
4-Nitroaniline	< 20.0	ug/L	4/11/2019	15:22
4-Nitrophenol	< 20.0	ug/L	4/11/2019	15:22
Acenaphthene	< 10.0	ug/L	4/11/2019	15:22
Acenaphthylene	< 10.0	ug/L	4/11/2019	15:22
Acetophenone	< 10.0	ug/L	4/11/2019	15:22
Anthracene	< 10.0	ug/L	4/11/2019	15:22
Atrazine	< 10.0	ug/L	4/11/2019	15:22
Benzaldehyde	< 10.0	ug/L	4/11/2019	15:22
Benzo (a) anthracene	< 10.0	ug/L	4/11/2019	15:22
Benzo (a) pyrene	< 10.0	ug/L	4/11/2019	15:22
Benzo (b) fluoranthene	< 10.0	ug/L	4/11/2019	15:22
Benzo (g,h,i) perylene	< 10.0	ug/L	4/11/2019	15:22
Benzo (k) fluoranthene	< 10.0	ug/L	4/11/2019	15:22
Bis (2-chloroethoxy) methane	< 10.0	ug/L	4/11/2019	15:22
Bis (2-chloroethyl) ether	< 10.0	ug/L	4/11/2019	15:22
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	4/11/2019	15:22
Butylbenzylphthalate	< 10.0	ug/L	4/11/2019	15:22
Caprolactam	< 10.0	ug/L	4/11/2019	15:22
Carbazole	< 10.0	ug/L	4/11/2019	15:22
Chrysene	< 10.0	ug/L	4/11/2019	15:22
Dibenz (a,h) anthracene	< 10.0	ug/L	4/11/2019	15:22
Dibenzofuran	< 10.0	ug/L	4/11/2019	15:22
Diethyl phthalate	< 10.0	ug/L	4/11/2019	15:22
Dimethyl phthalate	< 20.0	ug/L	4/11/2019	15:22
Di-n-butyl phthalate	< 10.0	ug/L	4/11/2019	15:22
Di-n-octylphthalate	< 10.0	ug/L	4/11/2019	15:22
Fluoranthene	< 10.0	ug/L	4/11/2019	15:22
Fluorene	< 10.0	ug/L	4/11/2019	15:22

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MW-107
Lab Sample ID: 191302-03 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Hexachlorobenzene	< 10.0	ug/L			4/11/2019 15:22
Hexachlorobutadiene	< 10.0	ug/L			4/11/2019 15:22
Hexachlorocyclopentadiene	< 10.0	ug/L			4/11/2019 15:22
Hexachloroethane	< 10.0	ug/L			4/11/2019 15:22
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L			4/11/2019 15:22
Isophorone	< 10.0	ug/L			4/11/2019 15:22
Naphthalene	< 10.0	ug/L			4/11/2019 15:22
Nitrobenzene	< 10.0	ug/L			4/11/2019 15:22
N-Nitroso-di-n-propylamine	< 10.0	ug/L			4/11/2019 15:22
N-Nitrosodiphenylamine	< 10.0	ug/L			4/11/2019 15:22
Pentachlorophenol	< 20.0	ug/L			4/11/2019 15:22
Phenanthrene	< 10.0	ug/L			4/11/2019 15:22
Phenol	< 10.0	ug/L			4/11/2019 15:22
Pyrene	< 10.0	ug/L			4/11/2019 15:22

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**78.7**	47.9 - 130		4/11/2019 15:22
2-Fluorobiphenyl	**49.2**	30.8 - 101		4/11/2019 15:22
2-Fluorophenol	**39.1**	10 - 113		4/11/2019 15:22
Nitrobenzene-d5	**66.8**	48.6 - 102		4/11/2019 15:22
Phenol-d5	**28.5**	10 - 111		4/11/2019 15:22
Terphenyl-d14	**88.2**	57.2 - 111		4/11/2019 15:22

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 4/5/2019
Data File: B36035.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier:	MW-107		
Lab Sample ID:	191302-03	**Date Sampled:**	4/2/2019
Matrix:	Groundwater	**Date Received:**	4/2/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		4/11/2019 19:08
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		4/11/2019 19:08
1,1,2-Trichloroethane	< 2.00	ug/L		4/11/2019 19:08
1,1-Dichloroethane	< 2.00	ug/L		4/11/2019 19:08
1,1-Dichloroethene	< 2.00	ug/L		4/11/2019 19:08
1,2,3-Trichlorobenzene	< 5.00	ug/L		4/11/2019 19:08
1,2,4-Trichlorobenzene	< 5.00	ug/L		4/11/2019 19:08
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		4/11/2019 19:08
1,2-Dibromoethane	< 2.00	ug/L		4/11/2019 19:08
1,2-Dichlorobenzene	< 2.00	ug/L		4/11/2019 19:08
1,2-Dichloroethane	< 2.00	ug/L		4/11/2019 19:08
1,2-Dichloropropane	< 2.00	ug/L		4/11/2019 19:08
1,3-Dichlorobenzene	< 2.00	ug/L		4/11/2019 19:08
1,4-Dichlorobenzene	< 2.00	ug/L		4/11/2019 19:08
1,4-Dioxane	< 20.0	ug/L		4/11/2019 19:08
2-Butanone	< 10.0	ug/L		4/11/2019 19:08
2-Hexanone	< 5.00	ug/L		4/11/2019 19:08
4-Methyl-2-pentanone	< 5.00	ug/L		4/11/2019 19:08
Acetone	< 10.0	ug/L		4/11/2019 19:08
Benzene	< 1.00	ug/L		4/11/2019 19:08
Bromochloromethane	< 5.00	ug/L		4/11/2019 19:08
Bromodichloromethane	< 2.00	ug/L		4/11/2019 19:08
Bromoform	< 5.00	ug/L		4/11/2019 19:08
Bromomethane	< 2.00	ug/L		4/11/2019 19:08
Carbon disulfide	< 2.00	ug/L		4/11/2019 19:08
Carbon Tetrachloride	< 2.00	ug/L		4/11/2019 19:08
Chlorobenzene	< 2.00	ug/L		4/11/2019 19:08

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MW-107
Lab Sample ID: 191302-03 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Chloroethane	< 2.00	ug/L	4/11/2019	19:08
Chloroform	< 2.00	ug/L	4/11/2019	19:08
Chloromethane	< 2.00	ug/L	4/11/2019	19:08
cis-1,2-Dichloroethene	< 2.00	ug/L	4/11/2019	19:08
cis-1,3-Dichloropropene	< 2.00	ug/L	4/11/2019	19:08
Cyclohexane	< 10.0	ug/L	4/11/2019	19:08
Dibromochloromethane	< 2.00	ug/L	4/11/2019	19:08
Dichlorodifluoromethane	< 2.00	ug/L	4/11/2019	19:08
Ethylbenzene	< 2.00	ug/L	4/11/2019	19:08
Freon 113	< 2.00	ug/L	4/11/2019	19:08
Isopropylbenzene	< 2.00	ug/L	4/11/2019	19:08
m,p-Xylene	< 2.00	ug/L	4/11/2019	19:08
Methyl acetate	< 2.00	ug/L	4/11/2019	19:08
Methyl tert-butyl Ether	< 2.00	ug/L	4/11/2019	19:08
Methylcyclohexane	< 2.00	ug/L	4/11/2019	19:08
Methylene chloride	< 5.00	ug/L	4/11/2019	19:08
o-Xylene	< 2.00	ug/L	4/11/2019	19:08
Styrene	< 5.00	ug/L	4/11/2019	19:08
Tetrachloroethene	< 2.00	ug/L	4/11/2019	19:08
Toluene	< 2.00	ug/L	4/11/2019	19:08
trans-1,2-Dichloroethene	< 2.00	ug/L	4/11/2019	19:08
trans-1,3-Dichloropropene	< 2.00	ug/L	4/11/2019	19:08
Trichloroethene	< 2.00	ug/L	4/11/2019	19:08
Trichlorofluoromethane	< 2.00	ug/L	4/11/2019	19:08
Vinyl chloride	< 2.00	ug/L	4/11/2019	19:08

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MW-107
Lab Sample ID: 191302-03 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**144**	71.4 - 133	*	4/11/2019 19:08
4-Bromofluorobenzene	**77.8**	61.7 - 126		4/11/2019 19:08
Pentafluorobenzene	**90.5**	87.4 - 109		4/11/2019 19:08
Toluene-D8	**85.6**	82.3 - 112		4/11/2019 19:08

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x59918.D

Report Prepared Thursday, April 18, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier:	MW-105		
Lab Sample ID:	191302-04	**Date Sampled:**	4/2/2019
Matrix:	Groundwater	**Date Received:**	4/2/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		4/10/2019 09:12

Method Reference(s): EPA 7470A
Preparation Date: 4/9/2019
Data File: Hg190410A

Report Prepared Thursday, April 18, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier:	MW-105		
Lab Sample ID:	191302-04	**Date Sampled:**	4/2/2019
Matrix:	Groundwater	**Date Received:**	4/2/2019

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**0.0796**	mg/L	J	4/17/2019 09:31
Antimony	< 0.0600	mg/L		4/17/2019 09:31
Arsenic	< 0.0100	mg/L		4/17/2019 09:31
Barium	< 0.100	mg/L		4/17/2019 09:31
Beryllium	< 0.00500	mg/L		4/16/2019 18:39
Cadmium	< 0.00500	mg/L		4/17/2019 09:31
Calcium	**117**	mg/L		4/17/2019 09:31
Chromium	< 0.0100	mg/L		4/17/2019 09:31
Cobalt	< 0.0500	mg/L		4/17/2019 09:31
Copper	< 0.0400	mg/L		4/17/2019 09:31
Iron	< 0.100	mg/L		4/17/2019 09:31
Lead	< 0.0100	mg/L		4/17/2019 09:31
Magnesium	**128**	mg/L		4/17/2019 09:31
Manganese	**0.0487**	mg/L		4/17/2019 09:31
Nickel	< 0.0400	mg/L		4/17/2019 09:31
Potassium	**11.4**	mg/L		4/17/2019 09:31
Selenium	< 0.0200	mg/L		4/17/2019 09:31
Silver	< 0.0100	mg/L		4/17/2019 09:31
Sodium	**94.5**	mg/L		4/17/2019 09:31
Thallium	< 0.0250	mg/L		4/17/2019 09:31
Vanadium	< 0.0250	mg/L		4/17/2019 09:31
Zinc	< 0.0600	mg/L		4/17/2019 09:31

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 4/3/2019
Data File: 190417A

Report Prepared Thursday, April 18, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MW-105
Lab Sample ID: 191302-04 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		4/11/2019 15:52
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		4/11/2019 15:52
1,2,4-Trichlorobenzene	< 10.0	ug/L		4/11/2019 15:52
1,2-Dichlorobenzene	< 10.0	ug/L		4/11/2019 15:52
1,3-Dichlorobenzene	< 10.0	ug/L		4/11/2019 15:52
1,4-Dichlorobenzene	< 10.0	ug/L		4/11/2019 15:52
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		4/11/2019 15:52
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		4/11/2019 15:52
2,4,5-Trichlorophenol	< 20.0	ug/L		4/11/2019 15:52
2,4,6-Trichlorophenol	< 10.0	ug/L		4/11/2019 15:52
2,4-Dichlorophenol	< 10.0	ug/L		4/11/2019 15:52
2,4-Dimethylphenol	< 20.0	ug/L		4/11/2019 15:52
2,4-Dinitrophenol	< 20.0	ug/L		4/11/2019 15:52
2,4-Dinitrotoluene	< 10.0	ug/L		4/11/2019 15:52
2,6-Dinitrotoluene	< 10.0	ug/L		4/11/2019 15:52
2-Chloronaphthalene	< 10.0	ug/L		4/11/2019 15:52
2-Chlorophenol	< 10.0	ug/L		4/11/2019 15:52
2-Methylnapthalene	< 10.0	ug/L		4/11/2019 15:52
2-Methylphenol	< 10.0	ug/L		4/11/2019 15:52
2-Nitroaniline	< 20.0	ug/L		4/11/2019 15:52
2-Nitrophenol	< 10.0	ug/L		4/11/2019 15:52
3&4-Methylphenol	< 10.0	ug/L		4/11/2019 15:52
3,3'-Dichlorobenzidine	< 10.0	ug/L		4/11/2019 15:52
3-Nitroaniline	< 20.0	ug/L		4/11/2019 15:52
4,6-Dinitro-2-methylphenol	< 20.0	ug/L		4/11/2019 15:52
4-Bromophenyl phenyl ether	< 10.0	ug/L		4/11/2019 15:52
4-Chloro-3-methylphenol	< 10.0	ug/L		4/11/2019 15:52

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MW-105
Lab Sample ID: 191302-04 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

4-Chloroaniline	< 10.0	ug/L	4/11/2019	15:52
4-Chlorophenyl phenyl ether	< 10.0	ug/L	4/11/2019	15:52
4-Nitroaniline	< 20.0	ug/L	4/11/2019	15:52
4-Nitrophenol	< 20.0	ug/L	4/11/2019	15:52
Acenaphthene	< 10.0	ug/L	4/11/2019	15:52
Acenaphthylene	< 10.0	ug/L	4/11/2019	15:52
Acetophenone	< 10.0	ug/L	4/11/2019	15:52
Anthracene	< 10.0	ug/L	4/11/2019	15:52
Atrazine	< 10.0	ug/L	4/11/2019	15:52
Benzaldehyde	< 10.0	ug/L	4/11/2019	15:52
Benzo (a) anthracene	< 10.0	ug/L	4/11/2019	15:52
Benzo (a) pyrene	< 10.0	ug/L	4/11/2019	15:52
Benzo (b) fluoranthene	< 10.0	ug/L	4/11/2019	15:52
Benzo (g,h,i) perylene	< 10.0	ug/L	4/11/2019	15:52
Benzo (k) fluoranthene	< 10.0	ug/L	4/11/2019	15:52
Bis (2-chloroethoxy) methane	< 10.0	ug/L	4/11/2019	15:52
Bis (2-chloroethyl) ether	< 10.0	ug/L	4/11/2019	15:52
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	4/11/2019	15:52
Butylbenzylphthalate	< 10.0	ug/L	4/11/2019	15:52
Caprolactam	< 10.0	ug/L	4/11/2019	15:52
Carbazole	< 10.0	ug/L	4/11/2019	15:52
Chrysene	< 10.0	ug/L	4/11/2019	15:52
Dibenz (a,h) anthracene	< 10.0	ug/L	4/11/2019	15:52
Dibenzofuran	< 10.0	ug/L	4/11/2019	15:52
Diethyl phthalate	< 10.0	ug/L	4/11/2019	15:52
Dimethyl phthalate	< 20.0	ug/L	4/11/2019	15:52
Di-n-butyl phthalate	< 10.0	ug/L	4/11/2019	15:52
Di-n-octylphthalate	< 10.0	ug/L	4/11/2019	15:52
Fluoranthene	< 10.0	ug/L	4/11/2019	15:52
Fluorene	< 10.0	ug/L	4/11/2019	15:52

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MW-105
Lab Sample ID: 191302-04 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Hexachlorobenzene	< 10.0	ug/L			4/11/2019 15:52
Hexachlorobutadiene	< 10.0	ug/L			4/11/2019 15:52
Hexachlorocyclopentadiene	< 10.0	ug/L			4/11/2019 15:52
Hexachloroethane	< 10.0	ug/L			4/11/2019 15:52
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L			4/11/2019 15:52
Isophorone	< 10.0	ug/L			4/11/2019 15:52
Naphthalene	< 10.0	ug/L			4/11/2019 15:52
Nitrobenzene	< 10.0	ug/L			4/11/2019 15:52
N-Nitroso-di-n-propylamine	< 10.0	ug/L			4/11/2019 15:52
N-Nitrosodiphenylamine	< 10.0	ug/L			4/11/2019 15:52
Pentachlorophenol	< 20.0	ug/L			4/11/2019 15:52
Phenanthrene	< 10.0	ug/L			4/11/2019 15:52
Phenol	< 10.0	ug/L			4/11/2019 15:52
Pyrene	< 10.0	ug/L			4/11/2019 15:52

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**85.2**	47.9 - 130		4/11/2019 15:52
2-Fluorobiphenyl	**53.1**	30.8 - 101		4/11/2019 15:52
2-Fluorophenol	**43.4**	10 - 113		4/11/2019 15:52
Nitrobenzene-d5	**71.7**	48.6 - 102		4/11/2019 15:52
Phenol-d5	**31.4**	10 - 111		4/11/2019 15:52
Terphenyl-d14	**92.5**	57.2 - 111		4/11/2019 15:52

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 4/5/2019
Data File: B36036.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier:	MW-105		
Lab Sample ID:	191302-04	**Date Sampled:**	4/2/2019
Matrix:	Groundwater	**Date Received:**	4/2/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		4/11/2019 19:31
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		4/11/2019 19:31
1,1,2-Trichloroethane	< 2.00	ug/L		4/11/2019 19:31
1,1-Dichloroethane	< 2.00	ug/L		4/11/2019 19:31
1,1-Dichloroethene	< 2.00	ug/L		4/11/2019 19:31
1,2,3-Trichlorobenzene	< 5.00	ug/L		4/11/2019 19:31
1,2,4-Trichlorobenzene	< 5.00	ug/L		4/11/2019 19:31
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		4/11/2019 19:31
1,2-Dibromoethane	< 2.00	ug/L		4/11/2019 19:31
1,2-Dichlorobenzene	< 2.00	ug/L		4/11/2019 19:31
1,2-Dichloroethane	< 2.00	ug/L		4/11/2019 19:31
1,2-Dichloropropane	< 2.00	ug/L		4/11/2019 19:31
1,3-Dichlorobenzene	< 2.00	ug/L		4/11/2019 19:31
1,4-Dichlorobenzene	< 2.00	ug/L		4/11/2019 19:31
1,4-Dioxane	< 20.0	ug/L		4/11/2019 19:31
2-Butanone	< 10.0	ug/L		4/11/2019 19:31
2-Hexanone	< 5.00	ug/L		4/11/2019 19:31
4-Methyl-2-pentanone	< 5.00	ug/L		4/11/2019 19:31
Acetone	< 10.0	ug/L		4/11/2019 19:31
Benzene	< 1.00	ug/L		4/11/2019 19:31
Bromochloromethane	< 5.00	ug/L		4/11/2019 19:31
Bromodichloromethane	< 2.00	ug/L		4/11/2019 19:31
Bromoform	< 5.00	ug/L		4/11/2019 19:31
Bromomethane	< 2.00	ug/L		4/11/2019 19:31
Carbon disulfide	< 2.00	ug/L		4/11/2019 19:31
Carbon Tetrachloride	< 2.00	ug/L		4/11/2019 19:31
Chlorobenzene	< 2.00	ug/L		4/11/2019 19:31

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MW-105
Lab Sample ID: 191302-04 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Chloroethane	< 2.00	ug/L	4/11/2019	19:31
Chloroform	< 2.00	ug/L	4/11/2019	19:31
Chloromethane	< 2.00	ug/L	4/11/2019	19:31
cis-1,2-Dichloroethene	< 2.00	ug/L	4/11/2019	19:31
cis-1,3-Dichloropropene	< 2.00	ug/L	4/11/2019	19:31
Cyclohexane	< 10.0	ug/L	4/11/2019	19:31
Dibromochloromethane	< 2.00	ug/L	4/11/2019	19:31
Dichlorodifluoromethane	< 2.00	ug/L	4/11/2019	19:31
Ethylbenzene	< 2.00	ug/L	4/11/2019	19:31
Freon 113	< 2.00	ug/L	4/11/2019	19:31
Isopropylbenzene	< 2.00	ug/L	4/11/2019	19:31
m,p-Xylene	< 2.00	ug/L	4/11/2019	19:31
Methyl acetate	< 2.00	ug/L	4/11/2019	19:31
Methyl tert-butyl Ether	< 2.00	ug/L	4/11/2019	19:31
Methylcyclohexane	< 2.00	ug/L	4/11/2019	19:31
Methylene chloride	< 5.00	ug/L	4/11/2019	19:31
o-Xylene	< 2.00	ug/L	4/11/2019	19:31
Styrene	< 5.00	ug/L	4/11/2019	19:31
Tetrachloroethene	< 2.00	ug/L	4/11/2019	19:31
Toluene	< 2.00	ug/L	4/11/2019	19:31
trans-1,2-Dichloroethene	< 2.00	ug/L	4/11/2019	19:31
trans-1,3-Dichloropropene	< 2.00	ug/L	4/11/2019	19:31
Trichloroethene	< 2.00	ug/L	4/11/2019	19:31
Trichlorofluoromethane	< 2.00	ug/L	4/11/2019	19:31
Vinyl chloride	< 2.00	ug/L	4/11/2019	19:31

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MW-105
Lab Sample ID: 191302-04 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**152**	71.4 - 133	*	4/11/2019 19:31
4-Bromofluorobenzene	**77.5**	61.7 - 126		4/11/2019 19:31
Pentafluorobenzene	**87.6**	87.4 - 109		4/11/2019 19:31
Toluene-D8	**86.6**	82.3 - 112		4/11/2019 19:31

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x59919.D

Report Prepared Thursday, April 18, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier:	MW-106		
Lab Sample ID:	191302-05	**Date Sampled:**	4/2/2019
Matrix:	Groundwater	**Date Received:**	4/2/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		4/10/2019 09:15

Method Reference(s): EPA 7470A
Preparation Date: 4/9/2019
Data File: Hg190410A

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier:	MW-106		
Lab Sample ID:	191302-05	**Date Sampled:**	4/2/2019
Matrix:	Groundwater	**Date Received:**	4/2/2019

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**0.0721**	mg/L	J	4/17/2019 09:36
Antimony	< 0.0600	mg/L		4/17/2019 09:36
Arsenic	< 0.0100	mg/L		4/17/2019 09:36
Barium	< 0.100	mg/L		4/17/2019 09:36
Beryllium	< 0.00500	mg/L		4/16/2019 18:43
Cadmium	< 0.00500	mg/L		4/17/2019 09:36
Calcium	**45.2**	mg/L		4/17/2019 09:36
Chromium	< 0.0100	mg/L		4/17/2019 09:36
Cobalt	< 0.0500	mg/L		4/17/2019 09:36
Copper	< 0.0400	mg/L		4/17/2019 09:36
Iron	**0.366**	mg/L		4/17/2019 09:36
Lead	< 0.0100	mg/L		4/17/2019 09:36
Magnesium	**10.2**	mg/L		4/17/2019 09:36
Manganese	**0.0263**	mg/L		4/17/2019 09:36
Nickel	< 0.0400	mg/L		4/17/2019 09:36
Potassium	**2.19**	mg/L	J	4/17/2019 09:36
Selenium	< 0.0200	mg/L		4/17/2019 09:36
Silver	< 0.0100	mg/L		4/17/2019 09:36
Sodium	**25.1**	mg/L		4/17/2019 09:36
Thallium	< 0.0250	mg/L		4/17/2019 09:36
Vanadium	< 0.0250	mg/L		4/17/2019 09:36
Zinc	< 0.0600	mg/L		4/17/2019 09:36

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 4/3/2019
Data File: 190417A

Report Prepared Thursday, April 18, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier:	MW-106		
Lab Sample ID:	191302-05	**Date Sampled:**	4/2/2019
Matrix:	Groundwater	**Date Received:**	4/2/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		4/11/2019 16:22
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		4/11/2019 16:22
1,2,4-Trichlorobenzene	< 10.0	ug/L		4/11/2019 16:22
1,2-Dichlorobenzene	< 10.0	ug/L		4/11/2019 16:22
1,3-Dichlorobenzene	< 10.0	ug/L		4/11/2019 16:22
1,4-Dichlorobenzene	< 10.0	ug/L		4/11/2019 16:22
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		4/11/2019 16:22
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		4/11/2019 16:22
2,4,5-Trichlorophenol	< 20.0	ug/L		4/11/2019 16:22
2,4,6-Trichlorophenol	< 10.0	ug/L		4/11/2019 16:22
2,4-Dichlorophenol	< 10.0	ug/L		4/11/2019 16:22
2,4-Dimethylphenol	< 20.0	ug/L		4/11/2019 16:22
2,4-Dinitrophenol	< 20.0	ug/L		4/11/2019 16:22
2,4-Dinitrotoluene	< 10.0	ug/L		4/11/2019 16:22
2,6-Dinitrotoluene	< 10.0	ug/L		4/11/2019 16:22
2-Chloronaphthalene	< 10.0	ug/L		4/11/2019 16:22
2-Chlorophenol	< 10.0	ug/L		4/11/2019 16:22
2-Methylnapthalene	< 10.0	ug/L		4/11/2019 16:22
2-Methylphenol	< 10.0	ug/L		4/11/2019 16:22
2-Nitroaniline	< 20.0	ug/L		4/11/2019 16:22
2-Nitrophenol	< 10.0	ug/L		4/11/2019 16:22
3&4-Methylphenol	< 10.0	ug/L		4/11/2019 16:22
3,3'-Dichlorobenzidine	< 10.0	ug/L		4/11/2019 16:22
3-Nitroaniline	< 20.0	ug/L		4/11/2019 16:22
4,6-Dinitro-2-methylphenol	< 20.0	ug/L		4/11/2019 16:22
4-Bromophenyl phenyl ether	< 10.0	ug/L		4/11/2019 16:22
4-Chloro-3-methylphenol	< 10.0	ug/L		4/11/2019 16:22

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MW-106
Lab Sample ID: 191302-05 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

4-Chloroaniline	< 10.0	ug/L	4/11/2019	16:22
4-Chlorophenyl phenyl ether	< 10.0	ug/L	4/11/2019	16:22
4-Nitroaniline	< 20.0	ug/L	4/11/2019	16:22
4-Nitrophenol	< 20.0	ug/L	4/11/2019	16:22
Acenaphthene	< 10.0	ug/L	4/11/2019	16:22
Acenaphthylene	< 10.0	ug/L	4/11/2019	16:22
Acetophenone	< 10.0	ug/L	4/11/2019	16:22
Anthracene	< 10.0	ug/L	4/11/2019	16:22
Atrazine	< 10.0	ug/L	4/11/2019	16:22
Benzaldehyde	< 10.0	ug/L	4/11/2019	16:22
Benzo (a) anthracene	< 10.0	ug/L	4/11/2019	16:22
Benzo (a) pyrene	< 10.0	ug/L	4/11/2019	16:22
Benzo (b) fluoranthene	< 10.0	ug/L	4/11/2019	16:22
Benzo (g,h,i) perylene	< 10.0	ug/L	4/11/2019	16:22
Benzo (k) fluoranthene	< 10.0	ug/L	4/11/2019	16:22
Bis (2-chloroethoxy) methane	< 10.0	ug/L	4/11/2019	16:22
Bis (2-chloroethyl) ether	< 10.0	ug/L	4/11/2019	16:22
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	4/11/2019	16:22
Butylbenzylphthalate	< 10.0	ug/L	4/11/2019	16:22
Caprolactam	< 10.0	ug/L	4/11/2019	16:22
Carbazole	< 10.0	ug/L	4/11/2019	16:22
Chrysene	< 10.0	ug/L	4/11/2019	16:22
Dibenz (a,h) anthracene	< 10.0	ug/L	4/11/2019	16:22
Dibenzofuran	< 10.0	ug/L	4/11/2019	16:22
Diethyl phthalate	< 10.0	ug/L	4/11/2019	16:22
Dimethyl phthalate	< 20.0	ug/L	4/11/2019	16:22
Di-n-butyl phthalate	< 10.0	ug/L	4/11/2019	16:22
Di-n-octylphthalate	< 10.0	ug/L	4/11/2019	16:22
Fluoranthene	< 10.0	ug/L	4/11/2019	16:22
Fluorene	< 10.0	ug/L	4/11/2019	16:22

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MW-106
Lab Sample ID: 191302-05 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Hexachlorobenzene	< 10.0	ug/L			4/11/2019 16:22
Hexachlorobutadiene	< 10.0	ug/L			4/11/2019 16:22
Hexachlorocyclopentadiene	< 10.0	ug/L			4/11/2019 16:22
Hexachloroethane	< 10.0	ug/L			4/11/2019 16:22
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L			4/11/2019 16:22
Isophorone	< 10.0	ug/L			4/11/2019 16:22
Naphthalene	< 10.0	ug/L			4/11/2019 16:22
Nitrobenzene	< 10.0	ug/L			4/11/2019 16:22
N-Nitroso-di-n-propylamine	< 10.0	ug/L			4/11/2019 16:22
N-Nitrosodiphenylamine	< 10.0	ug/L			4/11/2019 16:22
Pentachlorophenol	< 20.0	ug/L			4/11/2019 16:22
Phenanthrene	< 10.0	ug/L			4/11/2019 16:22
Phenol	< 10.0	ug/L			4/11/2019 16:22
Pyrene	< 10.0	ug/L			4/11/2019 16:22

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**88.2**	47.9 - 130		4/11/2019 16:22
2-Fluorobiphenyl	**64.1**	30.8 - 101		4/11/2019 16:22
2-Fluorophenol	**44.2**	10 - 113		4/11/2019 16:22
Nitrobenzene-d5	**77.8**	48.6 - 102		4/11/2019 16:22
Phenol-d5	**32.1**	10 - 111		4/11/2019 16:22
Terphenyl-d14	**97.1**	57.2 - 111		4/11/2019 16:22

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 4/5/2019
Data File: B36037.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier:	MW-106		
Lab Sample ID:	191302-05	**Date Sampled:**	4/2/2019
Matrix:	Groundwater	**Date Received:**	4/2/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		4/11/2019 19:54
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		4/11/2019 19:54
1,1,2-Trichloroethane	< 2.00	ug/L		4/11/2019 19:54
1,1-Dichloroethane	< 2.00	ug/L		4/11/2019 19:54
1,1-Dichloroethene	< 2.00	ug/L		4/11/2019 19:54
1,2,3-Trichlorobenzene	< 5.00	ug/L		4/11/2019 19:54
1,2,4-Trichlorobenzene	< 5.00	ug/L		4/11/2019 19:54
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		4/11/2019 19:54
1,2-Dibromoethane	< 2.00	ug/L		4/11/2019 19:54
1,2-Dichlorobenzene	< 2.00	ug/L		4/11/2019 19:54
1,2-Dichloroethane	< 2.00	ug/L		4/11/2019 19:54
1,2-Dichloropropane	< 2.00	ug/L		4/11/2019 19:54
1,3-Dichlorobenzene	< 2.00	ug/L		4/11/2019 19:54
1,4-Dichlorobenzene	< 2.00	ug/L		4/11/2019 19:54
1,4-Dioxane	< 20.0	ug/L		4/11/2019 19:54
2-Butanone	< 10.0	ug/L		4/11/2019 19:54
2-Hexanone	< 5.00	ug/L		4/11/2019 19:54
4-Methyl-2-pentanone	< 5.00	ug/L		4/11/2019 19:54
Acetone	< 10.0	ug/L		4/11/2019 19:54
Benzene	< 1.00	ug/L		4/11/2019 19:54
Bromochloromethane	< 5.00	ug/L		4/11/2019 19:54
Bromodichloromethane	< 2.00	ug/L		4/11/2019 19:54
Bromoform	< 5.00	ug/L		4/11/2019 19:54
Bromomethane	< 2.00	ug/L		4/11/2019 19:54
Carbon disulfide	< 2.00	ug/L		4/11/2019 19:54
Carbon Tetrachloride	< 2.00	ug/L		4/11/2019 19:54
Chlorobenzene	< 2.00	ug/L		4/11/2019 19:54

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MW-106
Lab Sample ID: 191302-05 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Chloroethane	< 2.00	ug/L	4/11/2019	19:54
Chloroform	< 2.00	ug/L	4/11/2019	19:54
Chloromethane	< 2.00	ug/L	4/11/2019	19:54
cis-1,2-Dichloroethene	< 2.00	ug/L	4/11/2019	19:54
cis-1,3-Dichloropropene	< 2.00	ug/L	4/11/2019	19:54
Cyclohexane	< 10.0	ug/L	4/11/2019	19:54
Dibromochloromethane	< 2.00	ug/L	4/11/2019	19:54
Dichlorodifluoromethane	< 2.00	ug/L	4/11/2019	19:54
Ethylbenzene	< 2.00	ug/L	4/11/2019	19:54
Freon 113	< 2.00	ug/L	4/11/2019	19:54
Isopropylbenzene	< 2.00	ug/L	4/11/2019	19:54
m,p-Xylene	< 2.00	ug/L	4/11/2019	19:54
Methyl acetate	< 2.00	ug/L	4/11/2019	19:54
Methyl tert-butyl Ether	< 2.00	ug/L	4/11/2019	19:54
Methylcyclohexane	< 2.00	ug/L	4/11/2019	19:54
Methylene chloride	< 5.00	ug/L	4/11/2019	19:54
o-Xylene	< 2.00	ug/L	4/11/2019	19:54
Styrene	< 5.00	ug/L	4/11/2019	19:54
Tetrachloroethene	< 2.00	ug/L	4/11/2019	19:54
Toluene	< 2.00	ug/L	4/11/2019	19:54
trans-1,2-Dichloroethene	< 2.00	ug/L	4/11/2019	19:54
trans-1,3-Dichloropropene	< 2.00	ug/L	4/11/2019	19:54
Trichloroethene	< 2.00	ug/L	4/11/2019	19:54
Trichlorofluoromethane	< 2.00	ug/L	4/11/2019	19:54
Vinyl chloride	< 2.00	ug/L	4/11/2019	19:54

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MW-106
Lab Sample ID: 191302-05 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**149**	71.4 - 133	*	4/11/2019 19:54
4-Bromofluorobenzene	**79.5**	61.7 - 126		4/11/2019 19:54
Pentafluorobenzene	**87.5**	87.4 - 109		4/11/2019 19:54
Toluene-D8	**87.7**	82.3 - 112		4/11/2019 19:54

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x59920.D

Report Prepared Thursday, April 18, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier:	MWR-101		
Lab Sample ID:	191302-06	**Date Sampled:**	4/2/2019
Matrix:	Groundwater	**Date Received:**	4/2/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		4/10/2019 09:23

Method Reference(s): EPA 7470A
Preparation Date: 4/9/2019
Data File: Hg190410A

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier:	MWR-101		
Lab Sample ID:	191302-06	**Date Sampled:**	4/2/2019
Matrix:	Groundwater	**Date Received:**	4/2/2019

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**0.0887**	mg/L	J	4/17/2019 09:40
Antimony	< 0.0600	mg/L		4/17/2019 09:40
Arsenic	< 0.0100	mg/L		4/17/2019 09:40
Barium	**0.104**	mg/L		4/17/2019 09:40
Beryllium	< 0.00500	mg/L		4/16/2019 18:47
Cadmium	< 0.00500	mg/L		4/17/2019 09:40
Calcium	**65.2**	mg/L		4/17/2019 09:40
Chromium	< 0.0100	mg/L		4/17/2019 09:40
Cobalt	< 0.0500	mg/L		4/17/2019 09:40
Copper	< 0.0400	mg/L		4/17/2019 09:40
Iron	**0.306**	mg/L		4/17/2019 09:40
Lead	< 0.0100	mg/L		4/17/2019 09:40
Magnesium	**20.8**	mg/L		4/17/2019 09:40
Manganese	**0.164**	mg/L		4/17/2019 09:40
Nickel	< 0.0400	mg/L		4/17/2019 09:40
Potassium	**8.46**	mg/L		4/17/2019 09:40
Selenium	< 0.0200	mg/L		4/17/2019 09:40
Silver	< 0.0100	mg/L		4/17/2019 09:40
Sodium	**3020**	mg/L		4/17/2019 09:57
Thallium	< 0.0250	mg/L		4/17/2019 09:40
Vanadium	< 0.0250	mg/L		4/17/2019 09:40
Zinc	**0.0367**	mg/L	J	4/17/2019 09:40

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 4/3/2019
Data File: 190417A

Report Prepared Thursday, April 18, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MWR-101
Lab Sample ID: 191302-06 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		4/11/2019 16:52
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		4/11/2019 16:52
1,2,4-Trichlorobenzene	< 10.0	ug/L		4/11/2019 16:52
1,2-Dichlorobenzene	< 10.0	ug/L		4/11/2019 16:52
1,3-Dichlorobenzene	< 10.0	ug/L		4/11/2019 16:52
1,4-Dichlorobenzene	< 10.0	ug/L		4/11/2019 16:52
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		4/11/2019 16:52
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		4/11/2019 16:52
2,4,5-Trichlorophenol	< 20.0	ug/L		4/11/2019 16:52
2,4,6-Trichlorophenol	< 10.0	ug/L		4/11/2019 16:52
2,4-Dichlorophenol	< 10.0	ug/L		4/11/2019 16:52
2,4-Dimethylphenol	< 20.0	ug/L		4/11/2019 16:52
2,4-Dinitrophenol	< 20.0	ug/L		4/11/2019 16:52
2,4-Dinitrotoluene	< 10.0	ug/L		4/11/2019 16:52
2,6-Dinitrotoluene	< 10.0	ug/L		4/11/2019 16:52
2-Chloronaphthalene	< 10.0	ug/L		4/11/2019 16:52
2-Chlorophenol	< 10.0	ug/L		4/11/2019 16:52
2-Methylnapthalene	< 10.0	ug/L		4/11/2019 16:52
2-Methylphenol	< 10.0	ug/L		4/11/2019 16:52
2-Nitroaniline	< 20.0	ug/L		4/11/2019 16:52
2-Nitrophenol	< 10.0	ug/L		4/11/2019 16:52
3&4-Methylphenol	< 10.0	ug/L		4/11/2019 16:52
3,3'-Dichlorobenzidine	< 10.0	ug/L		4/11/2019 16:52
3-Nitroaniline	< 20.0	ug/L		4/11/2019 16:52
4,6-Dinitro-2-methylphenol	< 20.0	ug/L		4/11/2019 16:52
4-Bromophenyl phenyl ether	< 10.0	ug/L		4/11/2019 16:52
4-Chloro-3-methylphenol	< 10.0	ug/L		4/11/2019 16:52

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MWR-101
Lab Sample ID: 191302-06 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

4-Chloroaniline	< 10.0	ug/L	4/11/2019	16:52
4-Chlorophenyl phenyl ether	< 10.0	ug/L	4/11/2019	16:52
4-Nitroaniline	< 20.0	ug/L	4/11/2019	16:52
4-Nitrophenol	< 20.0	ug/L	4/11/2019	16:52
Acenaphthene	< 10.0	ug/L	4/11/2019	16:52
Acenaphthylene	< 10.0	ug/L	4/11/2019	16:52
Acetophenone	< 10.0	ug/L	4/11/2019	16:52
Anthracene	< 10.0	ug/L	4/11/2019	16:52
Atrazine	< 10.0	ug/L	4/11/2019	16:52
Benzaldehyde	< 10.0	ug/L	4/11/2019	16:52
Benzo (a) anthracene	< 10.0	ug/L	4/11/2019	16:52
Benzo (a) pyrene	< 10.0	ug/L	4/11/2019	16:52
Benzo (b) fluoranthene	< 10.0	ug/L	4/11/2019	16:52
Benzo (g,h,i) perylene	< 10.0	ug/L	4/11/2019	16:52
Benzo (k) fluoranthene	< 10.0	ug/L	4/11/2019	16:52
Bis (2-chloroethoxy) methane	< 10.0	ug/L	4/11/2019	16:52
Bis (2-chloroethyl) ether	< 10.0	ug/L	4/11/2019	16:52
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	4/11/2019	16:52
Butylbenzylphthalate	< 10.0	ug/L	4/11/2019	16:52
Caprolactam	< 10.0	ug/L	4/11/2019	16:52
Carbazole	< 10.0	ug/L	4/11/2019	16:52
Chrysene	< 10.0	ug/L	4/11/2019	16:52
Dibenz (a,h) anthracene	< 10.0	ug/L	4/11/2019	16:52
Dibenzofuran	< 10.0	ug/L	4/11/2019	16:52
Diethyl phthalate	< 10.0	ug/L	4/11/2019	16:52
Dimethyl phthalate	< 20.0	ug/L	4/11/2019	16:52
Di-n-butyl phthalate	< 10.0	ug/L	4/11/2019	16:52
Di-n-octylphthalate	< 10.0	ug/L	4/11/2019	16:52
Fluoranthene	< 10.0	ug/L	4/11/2019	16:52
Fluorene	< 10.0	ug/L	4/11/2019	16:52

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MWR-101
Lab Sample ID: 191302-06 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Hexachlorobenzene	< 10.0	ug/L	4/11/2019	16:52
Hexachlorobutadiene	< 10.0	ug/L	4/11/2019	16:52
Hexachlorocyclopentadiene	< 10.0	ug/L	4/11/2019	16:52
Hexachloroethane	< 10.0	ug/L	4/11/2019	16:52
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	4/11/2019	16:52
Isophorone	< 10.0	ug/L	4/11/2019	16:52
Naphthalene	< 10.0	ug/L	4/11/2019	16:52
Nitrobenzene	< 10.0	ug/L	4/11/2019	16:52
N-Nitroso-di-n-propylamine	< 10.0	ug/L	4/11/2019	16:52
N-Nitrosodiphenylamine	< 10.0	ug/L	4/11/2019	16:52
Pentachlorophenol	< 20.0	ug/L	4/11/2019	16:52
Phenanthrene	< 10.0	ug/L	4/11/2019	16:52
Phenol	< 10.0	ug/L	4/11/2019	16:52
Pyrene	< 10.0	ug/L	4/11/2019	16:52

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**93.6**	47.9 - 130		4/11/2019	16:52
2-Fluorobiphenyl	**64.4**	30.8 - 101		4/11/2019	16:52
2-Fluorophenol	**48.0**	10 - 113		4/11/2019	16:52
Nitrobenzene-d5	**78.8**	48.6 - 102		4/11/2019	16:52
Phenol-d5	**34.3**	10 - 111		4/11/2019	16:52
Terphenyl-d14	**95.2**	57.2 - 111		4/11/2019	16:52

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 4/5/2019
Data File: B36038.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier:	MWR-101		
Lab Sample ID:	191302-06	**Date Sampled:**	4/2/2019
Matrix:	Groundwater	**Date Received:**	4/2/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		4/11/2019 20:17
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		4/11/2019 20:17
1,1,2-Trichloroethane	< 2.00	ug/L		4/11/2019 20:17
1,1-Dichloroethane	< 2.00	ug/L		4/11/2019 20:17
1,1-Dichloroethene	< 2.00	ug/L		4/11/2019 20:17
1,2,3-Trichlorobenzene	< 5.00	ug/L		4/11/2019 20:17
1,2,4-Trichlorobenzene	< 5.00	ug/L		4/11/2019 20:17
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		4/11/2019 20:17
1,2-Dibromoethane	< 2.00	ug/L		4/11/2019 20:17
1,2-Dichlorobenzene	< 2.00	ug/L		4/11/2019 20:17
1,2-Dichloroethane	< 2.00	ug/L		4/11/2019 20:17
1,2-Dichloropropane	< 2.00	ug/L		4/11/2019 20:17
1,3-Dichlorobenzene	< 2.00	ug/L		4/11/2019 20:17
1,4-Dichlorobenzene	< 2.00	ug/L		4/11/2019 20:17
1,4-Dioxane	< 20.0	ug/L		4/11/2019 20:17
2-Butanone	< 10.0	ug/L		4/11/2019 20:17
2-Hexanone	< 5.00	ug/L		4/11/2019 20:17
4-Methyl-2-pentanone	< 5.00	ug/L		4/11/2019 20:17
Acetone	< 10.0	ug/L		4/11/2019 20:17
Benzene	< 1.00	ug/L		4/11/2019 20:17
Bromochloromethane	< 5.00	ug/L		4/11/2019 20:17
Bromodichloromethane	< 2.00	ug/L		4/11/2019 20:17
Bromoform	< 5.00	ug/L		4/11/2019 20:17
Bromomethane	< 2.00	ug/L		4/11/2019 20:17
Carbon disulfide	< 2.00	ug/L		4/11/2019 20:17
Carbon Tetrachloride	< 2.00	ug/L		4/11/2019 20:17
Chlorobenzene	< 2.00	ug/L		4/11/2019 20:17

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MWR-101
Lab Sample ID: 191302-06 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Chloroethane	< 2.00	ug/L		4/11/2019	20:17
Chloroform	< 2.00	ug/L		4/11/2019	20:17
Chloromethane	< 2.00	ug/L		4/11/2019	20:17
cis-1,2-Dichloroethene	**1.71**	ug/L	J	4/11/2019	20:17
cis-1,3-Dichloropropene	< 2.00	ug/L		4/11/2019	20:17
Cyclohexane	< 10.0	ug/L		4/11/2019	20:17
Dibromochloromethane	< 2.00	ug/L		4/11/2019	20:17
Dichlorodifluoromethane	< 2.00	ug/L		4/11/2019	20:17
Ethylbenzene	< 2.00	ug/L		4/11/2019	20:17
Freon 113	< 2.00	ug/L		4/11/2019	20:17
Isopropylbenzene	< 2.00	ug/L		4/11/2019	20:17
m,p-Xylene	< 2.00	ug/L		4/11/2019	20:17
Methyl acetate	< 2.00	ug/L		4/11/2019	20:17
Methyl tert-butyl Ether	< 2.00	ug/L		4/11/2019	20:17
Methylcyclohexane	< 2.00	ug/L		4/11/2019	20:17
Methylene chloride	< 5.00	ug/L		4/11/2019	20:17
o-Xylene	< 2.00	ug/L		4/11/2019	20:17
Styrene	< 5.00	ug/L		4/11/2019	20:17
Tetrachloroethene	< 2.00	ug/L		4/11/2019	20:17
Toluene	< 2.00	ug/L		4/11/2019	20:17
trans-1,2-Dichloroethene	< 2.00	ug/L		4/11/2019	20:17
trans-1,3-Dichloropropene	< 2.00	ug/L		4/11/2019	20:17
Trichloroethene	< 2.00	ug/L		4/11/2019	20:17
Trichlorofluoromethane	< 2.00	ug/L		4/11/2019	20:17
Vinyl chloride	< 2.00	ug/L		4/11/2019	20:17

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MWR-101
Lab Sample ID: 191302-06 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**149**	71.4 - 133	*	4/11/2019 20:17
4-Bromofluorobenzene	**76.9**	61.7 - 126		4/11/2019 20:17
Pentafluorobenzene	**92.2**	87.4 - 109		4/11/2019 20:17
Toluene-D8	**85.8**	82.3 - 112		4/11/2019 20:17

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x59921.D

Report Prepared Thursday, April 18, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier:	MW-101		
Lab Sample ID:	191302-07	**Date Sampled:**	4/2/2019
Matrix:	Groundwater	**Date Received:**	4/2/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		4/10/2019 09:26

Method Reference(s): EPA 7470A
Preparation Date: 4/9/2019
Data File: Hg190410A

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier:	MW-101		
Lab Sample ID:	191302-07	**Date Sampled:**	4/2/2019
Matrix:	Groundwater	**Date Received:**	4/2/2019

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	< 0.100	mg/L		4/17/2019 09:44
Antimony	< 0.0600	mg/L		4/17/2019 09:44
Arsenic	< 0.0100	mg/L		4/17/2019 09:44
Barium	**0.169**	mg/L		4/17/2019 09:44
Beryllium	< 0.00500	mg/L		4/16/2019 18:52
Cadmium	< 0.00500	mg/L		4/17/2019 09:44
Calcium	**108**	mg/L		4/17/2019 09:44
Chromium	< 0.0100	mg/L		4/17/2019 09:44
Cobalt	< 0.0500	mg/L		4/17/2019 09:44
Copper	< 0.0400	mg/L		4/17/2019 09:44
Iron	**10.9**	mg/L		4/17/2019 09:44
Lead	< 0.0100	mg/L		4/17/2019 09:44
Magnesium	**27.1**	mg/L		4/17/2019 09:44
Manganese	**0.412**	mg/L		4/17/2019 09:44
Nickel	< 0.0400	mg/L		4/17/2019 09:44
Potassium	**9.23**	mg/L		4/17/2019 09:44
Selenium	< 0.0200	mg/L		4/17/2019 09:44
Silver	< 0.0100	mg/L		4/17/2019 09:44
Sodium	**176**	mg/L		4/17/2019 09:44
Thallium	< 0.0250	mg/L		4/17/2019 09:44
Vanadium	< 0.0250	mg/L		4/17/2019 09:44
Zinc	< 0.0600	mg/L		4/17/2019 09:44

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 4/3/2019
Data File: 190417A

Report Prepared Thursday, April 18, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MW-101
Lab Sample ID: 191302-07 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		4/11/2019 17:21
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		4/11/2019 17:21
1,2,4-Trichlorobenzene	< 10.0	ug/L		4/11/2019 17:21
1,2-Dichlorobenzene	< 10.0	ug/L		4/11/2019 17:21
1,3-Dichlorobenzene	< 10.0	ug/L		4/11/2019 17:21
1,4-Dichlorobenzene	< 10.0	ug/L		4/11/2019 17:21
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		4/11/2019 17:21
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		4/11/2019 17:21
2,4,5-Trichlorophenol	< 20.0	ug/L		4/11/2019 17:21
2,4,6-Trichlorophenol	< 10.0	ug/L		4/11/2019 17:21
2,4-Dichlorophenol	< 10.0	ug/L		4/11/2019 17:21
2,4-Dimethylphenol	< 20.0	ug/L		4/11/2019 17:21
2,4-Dinitrophenol	< 20.0	ug/L		4/11/2019 17:21
2,4-Dinitrotoluene	< 10.0	ug/L		4/11/2019 17:21
2,6-Dinitrotoluene	< 10.0	ug/L		4/11/2019 17:21
2-Chloronaphthalene	< 10.0	ug/L		4/11/2019 17:21
2-Chlorophenol	< 10.0	ug/L		4/11/2019 17:21
2-Methylnapthalene	< 10.0	ug/L		4/11/2019 17:21
2-Methylphenol	< 10.0	ug/L		4/11/2019 17:21
2-Nitroaniline	< 20.0	ug/L		4/11/2019 17:21
2-Nitrophenol	< 10.0	ug/L		4/11/2019 17:21
3&4-Methylphenol	< 10.0	ug/L		4/11/2019 17:21
3,3'-Dichlorobenzidine	< 10.0	ug/L		4/11/2019 17:21
3-Nitroaniline	< 20.0	ug/L		4/11/2019 17:21
4,6-Dinitro-2-methylphenol	< 20.0	ug/L		4/11/2019 17:21
4-Bromophenyl phenyl ether	< 10.0	ug/L		4/11/2019 17:21
4-Chloro-3-methylphenol	< 10.0	ug/L		4/11/2019 17:21

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MW-101
Lab Sample ID: 191302-07 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

4-Chloroaniline	< 10.0	ug/L	4/11/2019	17:21
4-Chlorophenyl phenyl ether	< 10.0	ug/L	4/11/2019	17:21
4-Nitroaniline	< 20.0	ug/L	4/11/2019	17:21
4-Nitrophenol	< 20.0	ug/L	4/11/2019	17:21
Acenaphthene	< 10.0	ug/L	4/11/2019	17:21
Acenaphthylene	< 10.0	ug/L	4/11/2019	17:21
Acetophenone	< 10.0	ug/L	4/11/2019	17:21
Anthracene	< 10.0	ug/L	4/11/2019	17:21
Atrazine	< 10.0	ug/L	4/11/2019	17:21
Benzaldehyde	< 10.0	ug/L	4/11/2019	17:21
Benzo (a) anthracene	< 10.0	ug/L	4/11/2019	17:21
Benzo (a) pyrene	< 10.0	ug/L	4/11/2019	17:21
Benzo (b) fluoranthene	< 10.0	ug/L	4/11/2019	17:21
Benzo (g,h,i) perylene	< 10.0	ug/L	4/11/2019	17:21
Benzo (k) fluoranthene	< 10.0	ug/L	4/11/2019	17:21
Bis (2-chloroethoxy) methane	< 10.0	ug/L	4/11/2019	17:21
Bis (2-chloroethyl) ether	< 10.0	ug/L	4/11/2019	17:21
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	4/11/2019	17:21
Butylbenzylphthalate	< 10.0	ug/L	4/11/2019	17:21
Caprolactam	< 10.0	ug/L	4/11/2019	17:21
Carbazole	< 10.0	ug/L	4/11/2019	17:21
Chrysene	< 10.0	ug/L	4/11/2019	17:21
Dibenz (a,h) anthracene	< 10.0	ug/L	4/11/2019	17:21
Dibenzofuran	< 10.0	ug/L	4/11/2019	17:21
Diethyl phthalate	< 10.0	ug/L	4/11/2019	17:21
Dimethyl phthalate	< 20.0	ug/L	4/11/2019	17:21
Di-n-butyl phthalate	< 10.0	ug/L	4/11/2019	17:21
Di-n-octylphthalate	< 10.0	ug/L	4/11/2019	17:21
Fluoranthene	< 10.0	ug/L	4/11/2019	17:21
Fluorene	< 10.0	ug/L	4/11/2019	17:21

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MW-101
Lab Sample ID: 191302-07 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Hexachlorobenzene	< 10.0	ug/L			4/11/2019 17:21
Hexachlorobutadiene	< 10.0	ug/L			4/11/2019 17:21
Hexachlorocyclopentadiene	< 10.0	ug/L			4/11/2019 17:21
Hexachloroethane	< 10.0	ug/L			4/11/2019 17:21
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L			4/11/2019 17:21
Isophorone	< 10.0	ug/L			4/11/2019 17:21
Naphthalene	< 10.0	ug/L			4/11/2019 17:21
Nitrobenzene	< 10.0	ug/L			4/11/2019 17:21
N-Nitroso-di-n-propylamine	< 10.0	ug/L			4/11/2019 17:21
N-Nitrosodiphenylamine	< 10.0	ug/L			4/11/2019 17:21
Pentachlorophenol	< 20.0	ug/L			4/11/2019 17:21
Phenanthrene	< 10.0	ug/L			4/11/2019 17:21
Phenol	< 10.0	ug/L			4/11/2019 17:21
Pyrene	< 10.0	ug/L			4/11/2019 17:21

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**83.7**	47.9 - 130		4/11/2019 17:21
2-Fluorobiphenyl	**55.2**	30.8 - 101		4/11/2019 17:21
2-Fluorophenol	**41.2**	10 - 113		4/11/2019 17:21
Nitrobenzene-d5	**69.0**	48.6 - 102		4/11/2019 17:21
Phenol-d5	**30.0**	10 - 111		4/11/2019 17:21
Terphenyl-d14	**92.0**	57.2 - 111		4/11/2019 17:21

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 4/5/2019
Data File: B36039.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MW-101
Lab Sample ID: 191302-07 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		4/11/2019 20:40
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		4/11/2019 20:40
1,1,2-Trichloroethane	< 2.00	ug/L		4/11/2019 20:40
1,1-Dichloroethane	< 2.00	ug/L		4/11/2019 20:40
1,1-Dichloroethene	< 2.00	ug/L		4/11/2019 20:40
1,2,3-Trichlorobenzene	< 5.00	ug/L		4/11/2019 20:40
1,2,4-Trichlorobenzene	< 5.00	ug/L		4/11/2019 20:40
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		4/11/2019 20:40
1,2-Dibromoethane	< 2.00	ug/L		4/11/2019 20:40
1,2-Dichlorobenzene	< 2.00	ug/L		4/11/2019 20:40
1,2-Dichloroethane	< 2.00	ug/L		4/11/2019 20:40
1,2-Dichloropropane	< 2.00	ug/L		4/11/2019 20:40
1,3-Dichlorobenzene	< 2.00	ug/L		4/11/2019 20:40
1,4-Dichlorobenzene	< 2.00	ug/L		4/11/2019 20:40
1,4-Dioxane	< 20.0	ug/L		4/11/2019 20:40
2-Butanone	< 10.0	ug/L		4/11/2019 20:40
2-Hexanone	< 5.00	ug/L		4/11/2019 20:40
4-Methyl-2-pentanone	< 5.00	ug/L		4/11/2019 20:40
Acetone	< 10.0	ug/L		4/11/2019 20:40
Benzene	< 1.00	ug/L		4/11/2019 20:40
Bromochloromethane	< 5.00	ug/L		4/11/2019 20:40
Bromodichloromethane	< 2.00	ug/L		4/11/2019 20:40
Bromoform	< 5.00	ug/L		4/11/2019 20:40
Bromomethane	< 2.00	ug/L		4/11/2019 20:40
Carbon disulfide	< 2.00	ug/L		4/11/2019 20:40
Carbon Tetrachloride	< 2.00	ug/L		4/11/2019 20:40
Chlorobenzene	< 2.00	ug/L		4/11/2019 20:40

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MW-101
Lab Sample ID: 191302-07 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Chloroethane	< 2.00	ug/L	4/11/2019	20:40
Chloroform	< 2.00	ug/L	4/11/2019	20:40
Chloromethane	< 2.00	ug/L	4/11/2019	20:40
cis-1,2-Dichloroethene	< 2.00	ug/L	4/11/2019	20:40
cis-1,3-Dichloropropene	< 2.00	ug/L	4/11/2019	20:40
Cyclohexane	< 10.0	ug/L	4/11/2019	20:40
Dibromochloromethane	< 2.00	ug/L	4/11/2019	20:40
Dichlorodifluoromethane	< 2.00	ug/L	4/11/2019	20:40
Ethylbenzene	< 2.00	ug/L	4/11/2019	20:40
Freon 113	< 2.00	ug/L	4/11/2019	20:40
Isopropylbenzene	< 2.00	ug/L	4/11/2019	20:40
m,p-Xylene	< 2.00	ug/L	4/11/2019	20:40
Methyl acetate	< 2.00	ug/L	4/11/2019	20:40
Methyl tert-butyl Ether	< 2.00	ug/L	4/11/2019	20:40
Methylcyclohexane	< 2.00	ug/L	4/11/2019	20:40
Methylene chloride	< 5.00	ug/L	4/11/2019	20:40
o-Xylene	< 2.00	ug/L	4/11/2019	20:40
Styrene	< 5.00	ug/L	4/11/2019	20:40
Tetrachloroethene	< 2.00	ug/L	4/11/2019	20:40
Toluene	< 2.00	ug/L	4/11/2019	20:40
trans-1,2-Dichloroethene	< 2.00	ug/L	4/11/2019	20:40
trans-1,3-Dichloropropene	< 2.00	ug/L	4/11/2019	20:40
Trichloroethene	< 2.00	ug/L	4/11/2019	20:40
Trichlorofluoromethane	< 2.00	ug/L	4/11/2019	20:40
Vinyl chloride	< 2.00	ug/L	4/11/2019	20:40

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MW-101
Lab Sample ID: 191302-07 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**148**	71.4 - 133	*	4/11/2019 20:40
4-Bromofluorobenzene	**76.8**	61.7 - 126		4/11/2019 20:40
Pentafluorobenzene	**82.4**	87.4 - 109	*	4/11/2019 20:40
Toluene-D8	**84.8**	82.3 - 112		4/11/2019 20:40

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x59922.D

Report Prepared Thursday, April 18, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier:	MW-102		
Lab Sample ID:	191302-08	**Date Sampled:**	4/2/2019
Matrix:	Groundwater	**Date Received:**	4/2/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		4/10/2019 09:29

Method Reference(s): EPA 7470A
Preparation Date: 4/9/2019
Data File: Hg190410A

Report Prepared Thursday, April 18, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier:	MW-102		
Lab Sample ID:	191302-08	**Date Sampled:**	4/2/2019
Matrix:	Groundwater	**Date Received:**	4/2/2019

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	< 0.100	mg/L		4/17/2019 09:49
Antimony	< 0.0600	mg/L		4/17/2019 09:49
Arsenic	< 0.0100	mg/L		4/17/2019 09:49
Barium	**0.613**	mg/L		4/17/2019 09:49
Beryllium	< 0.00500	mg/L		4/16/2019 18:56
Cadmium	< 0.00500	mg/L		4/17/2019 09:49
Calcium	**518**	mg/L		4/17/2019 10:02
Chromium	< 0.0100	mg/L		4/17/2019 09:49
Cobalt	< 0.0500	mg/L		4/17/2019 09:49
Copper	< 0.0400	mg/L		4/17/2019 09:49
Iron	**9.72**	mg/L		4/17/2019 09:49
Lead	< 0.0100	mg/L		4/17/2019 09:49
Magnesium	**165**	mg/L		4/17/2019 09:49
Manganese	**0.770**	mg/L		4/17/2019 09:49
Nickel	< 0.0400	mg/L		4/17/2019 09:49
Potassium	**48.7**	mg/L		4/17/2019 09:49
Selenium	< 0.0200	mg/L		4/17/2019 09:49
Silver	< 0.0100	mg/L		4/17/2019 09:49
Sodium	**1590**	mg/L		4/17/2019 10:02
Thallium	< 0.0250	mg/L		4/17/2019 09:49
Vanadium	< 0.0250	mg/L		4/17/2019 09:49
Zinc	**0.0575**	mg/L	J	4/17/2019 09:49

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 4/3/2019
Data File: 190417A

Report Prepared Thursday, April 18, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MW-102
Lab Sample ID: 191302-08 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		4/11/2019 17:51
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		4/11/2019 17:51
1,2,4-Trichlorobenzene	< 10.0	ug/L		4/11/2019 17:51
1,2-Dichlorobenzene	< 10.0	ug/L		4/11/2019 17:51
1,3-Dichlorobenzene	< 10.0	ug/L		4/11/2019 17:51
1,4-Dichlorobenzene	< 10.0	ug/L		4/11/2019 17:51
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		4/11/2019 17:51
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		4/11/2019 17:51
2,4,5-Trichlorophenol	< 20.0	ug/L		4/11/2019 17:51
2,4,6-Trichlorophenol	< 10.0	ug/L		4/11/2019 17:51
2,4-Dichlorophenol	< 10.0	ug/L		4/11/2019 17:51
2,4-Dimethylphenol	< 20.0	ug/L		4/11/2019 17:51
2,4-Dinitrophenol	< 20.0	ug/L		4/11/2019 17:51
2,4-Dinitrotoluene	< 10.0	ug/L		4/11/2019 17:51
2,6-Dinitrotoluene	< 10.0	ug/L		4/11/2019 17:51
2-Chloronaphthalene	< 10.0	ug/L		4/11/2019 17:51
2-Chlorophenol	< 10.0	ug/L		4/11/2019 17:51
2-Methylnapthalene	< 10.0	ug/L		4/11/2019 17:51
2-Methylphenol	< 10.0	ug/L		4/11/2019 17:51
2-Nitroaniline	< 20.0	ug/L		4/11/2019 17:51
2-Nitrophenol	< 10.0	ug/L		4/11/2019 17:51
3&4-Methylphenol	< 10.0	ug/L		4/11/2019 17:51
3,3'-Dichlorobenzidine	< 10.0	ug/L		4/11/2019 17:51
3-Nitroaniline	< 20.0	ug/L		4/11/2019 17:51
4,6-Dinitro-2-methylphenol	< 20.0	ug/L		4/11/2019 17:51
4-Bromophenyl phenyl ether	< 10.0	ug/L		4/11/2019 17:51
4-Chloro-3-methylphenol	< 10.0	ug/L		4/11/2019 17:51

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier:	MW-102		
Lab Sample ID:	191302-08	**Date Sampled:**	4/2/2019
Matrix:	Groundwater	**Date Received:**	4/2/2019

4-Chloroaniline	< 10.0	ug/L	4/11/2019	17:51
4-Chlorophenyl phenyl ether	< 10.0	ug/L	4/11/2019	17:51
4-Nitroaniline	< 20.0	ug/L	4/11/2019	17:51
4-Nitrophenol	< 20.0	ug/L	4/11/2019	17:51
Acenaphthene	< 10.0	ug/L	4/11/2019	17:51
Acenaphthylene	< 10.0	ug/L	4/11/2019	17:51
Acetophenone	< 10.0	ug/L	4/11/2019	17:51
Anthracene	< 10.0	ug/L	4/11/2019	17:51
Atrazine	< 10.0	ug/L	4/11/2019	17:51
Benzaldehyde	< 10.0	ug/L	4/11/2019	17:51
Benzo (a) anthracene	< 10.0	ug/L	4/11/2019	17:51
Benzo (a) pyrene	< 10.0	ug/L	4/11/2019	17:51
Benzo (b) fluoranthene	< 10.0	ug/L	4/11/2019	17:51
Benzo (g,h,i) perylene	< 10.0	ug/L	4/11/2019	17:51
Benzo (k) fluoranthene	< 10.0	ug/L	4/11/2019	17:51
Bis (2-chloroethoxy) methane	< 10.0	ug/L	4/11/2019	17:51
Bis (2-chloroethyl) ether	< 10.0	ug/L	4/11/2019	17:51
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	4/11/2019	17:51
Butylbenzylphthalate	< 10.0	ug/L	4/11/2019	17:51
Caprolactam	< 10.0	ug/L	4/11/2019	17:51
Carbazole	< 10.0	ug/L	4/11/2019	17:51
Chrysene	< 10.0	ug/L	4/11/2019	17:51
Dibenz (a,h) anthracene	< 10.0	ug/L	4/11/2019	17:51
Dibenzofuran	< 10.0	ug/L	4/11/2019	17:51
Diethyl phthalate	< 10.0	ug/L	4/11/2019	17:51
Dimethyl phthalate	< 20.0	ug/L	4/11/2019	17:51
Di-n-butyl phthalate	< 10.0	ug/L	4/11/2019	17:51
Di-n-octylphthalate	< 10.0	ug/L	4/11/2019	17:51
Fluoranthene	< 10.0	ug/L	4/11/2019	17:51
Fluorene	< 10.0	ug/L	4/11/2019	17:51

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MW-102
Lab Sample ID: 191302-08 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Hexachlorobenzene	< 10.0	ug/L	4/11/2019	17:51
Hexachlorobutadiene	< 10.0	ug/L	4/11/2019	17:51
Hexachlorocyclopentadiene	< 10.0	ug/L	4/11/2019	17:51
Hexachloroethane	< 10.0	ug/L	4/11/2019	17:51
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	4/11/2019	17:51
Isophorone	< 10.0	ug/L	4/11/2019	17:51
Naphthalene	< 10.0	ug/L	4/11/2019	17:51
Nitrobenzene	< 10.0	ug/L	4/11/2019	17:51
N-Nitroso-di-n-propylamine	< 10.0	ug/L	4/11/2019	17:51
N-Nitrosodiphenylamine	< 10.0	ug/L	4/11/2019	17:51
Pentachlorophenol	< 20.0	ug/L	4/11/2019	17:51
Phenanthrene	< 10.0	ug/L	4/11/2019	17:51
Phenol	< 10.0	ug/L	4/11/2019	17:51
Pyrene	< 10.0	ug/L	4/11/2019	17:51

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**91.1**	47.9 - 130		4/11/2019	17:51
2-Fluorobiphenyl	**66.9**	30.8 - 101		4/11/2019	17:51
2-Fluorophenol	**48.2**	10 - 113		4/11/2019	17:51
Nitrobenzene-d5	**82.3**	48.6 - 102		4/11/2019	17:51
Phenol-d5	**34.2**	10 - 111		4/11/2019	17:51
Terphenyl-d14	**95.6**	57.2 - 111		4/11/2019	17:51

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 4/5/2019
Data File: B36040.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MW-102
Lab Sample ID: 191302-08 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		4/11/2019 21:02
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		4/11/2019 21:02
1,1,2-Trichloroethane	< 2.00	ug/L		4/11/2019 21:02
1,1-Dichloroethane	< 2.00	ug/L		4/11/2019 21:02
1,1-Dichloroethene	< 2.00	ug/L		4/11/2019 21:02
1,2,3-Trichlorobenzene	< 5.00	ug/L		4/11/2019 21:02
1,2,4-Trichlorobenzene	< 5.00	ug/L		4/11/2019 21:02
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		4/11/2019 21:02
1,2-Dibromoethane	< 2.00	ug/L		4/11/2019 21:02
1,2-Dichlorobenzene	< 2.00	ug/L		4/11/2019 21:02
1,2-Dichloroethane	< 2.00	ug/L		4/11/2019 21:02
1,2-Dichloropropane	< 2.00	ug/L		4/11/2019 21:02
1,3-Dichlorobenzene	< 2.00	ug/L		4/11/2019 21:02
1,4-Dichlorobenzene	< 2.00	ug/L		4/11/2019 21:02
1,4-Dioxane	< 20.0	ug/L		4/11/2019 21:02
2-Butanone	< 10.0	ug/L		4/11/2019 21:02
2-Hexanone	< 5.00	ug/L		4/11/2019 21:02
4-Methyl-2-pentanone	< 5.00	ug/L		4/11/2019 21:02
Acetone	< 10.0	ug/L		4/11/2019 21:02
Benzene	< 1.00	ug/L		4/11/2019 21:02
Bromochloromethane	< 5.00	ug/L		4/11/2019 21:02
Bromodichloromethane	< 2.00	ug/L		4/11/2019 21:02
Bromoform	< 5.00	ug/L		4/11/2019 21:02
Bromomethane	< 2.00	ug/L		4/11/2019 21:02
Carbon disulfide	< 2.00	ug/L		4/11/2019 21:02
Carbon Tetrachloride	< 2.00	ug/L		4/11/2019 21:02
Chlorobenzene	< 2.00	ug/L		4/11/2019 21:02

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MW-102
Lab Sample ID: 191302-08 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Chloroethane	< 2.00	ug/L	4/11/2019	21:02
Chloroform	< 2.00	ug/L	4/11/2019	21:02
Chloromethane	< 2.00	ug/L	4/11/2019	21:02
cis-1,2-Dichloroethene	< 2.00	ug/L	4/11/2019	21:02
cis-1,3-Dichloropropene	< 2.00	ug/L	4/11/2019	21:02
Cyclohexane	< 10.0	ug/L	4/11/2019	21:02
Dibromochloromethane	< 2.00	ug/L	4/11/2019	21:02
Dichlorodifluoromethane	< 2.00	ug/L	4/11/2019	21:02
Ethylbenzene	< 2.00	ug/L	4/11/2019	21:02
Freon 113	< 2.00	ug/L	4/11/2019	21:02
Isopropylbenzene	< 2.00	ug/L	4/11/2019	21:02
m,p-Xylene	< 2.00	ug/L	4/11/2019	21:02
Methyl acetate	< 2.00	ug/L	4/11/2019	21:02
Methyl tert-butyl Ether	< 2.00	ug/L	4/11/2019	21:02
Methylcyclohexane	< 2.00	ug/L	4/11/2019	21:02
Methylene chloride	< 5.00	ug/L	4/11/2019	21:02
o-Xylene	< 2.00	ug/L	4/11/2019	21:02
Styrene	< 5.00	ug/L	4/11/2019	21:02
Tetrachloroethene	< 2.00	ug/L	4/11/2019	21:02
Toluene	< 2.00	ug/L	4/11/2019	21:02
trans-1,2-Dichloroethene	< 2.00	ug/L	4/11/2019	21:02
trans-1,3-Dichloropropene	< 2.00	ug/L	4/11/2019	21:02
Trichloroethene	< 2.00	ug/L	4/11/2019	21:02
Trichlorofluoromethane	< 2.00	ug/L	4/11/2019	21:02
Vinyl chloride	< 2.00	ug/L	4/11/2019	21:02

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MW-102
Lab Sample ID: 191302-08 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**146**	71.4 - 133	*	4/11/2019 21:02
4-Bromofluorobenzene	**86.2**	61.7 - 126		4/11/2019 21:02
Pentafluorobenzene	**84.1**	87.4 - 109	*	4/11/2019 21:02
Toluene-D8	**95.0**	82.3 - 112		4/11/2019 21:02

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x59923.D

Report Prepared Thursday, April 18, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier:	MWR-102		
Lab Sample ID:	191302-09	**Date Sampled:**	4/2/2019
Matrix:	Groundwater	**Date Received:**	4/2/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		4/10/2019 09:32

Method Reference(s): EPA 7470A
Preparation Date: 4/9/2019
Data File: Hg190410A

Report Prepared Thursday, April 18, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier:	MWR-102		
Lab Sample ID:	191302-09	**Date Sampled:**	4/2/2019
Matrix:	Groundwater	**Date Received:**	4/2/2019

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	< 0.100	mg/L		4/17/2019 09:53
Antimony	< 0.0600	mg/L		4/17/2019 09:53
Arsenic	< 0.0100	mg/L		4/17/2019 09:53
Barium	**0.0768**	mg/L	J	4/17/2019 09:53
Beryllium	< 0.00500	mg/L		4/16/2019 19:01
Cadmium	< 0.00500	mg/L		4/17/2019 09:53
Calcium	**108**	mg/L		4/17/2019 09:53
Chromium	< 0.0100	mg/L		4/17/2019 09:53
Cobalt	< 0.0500	mg/L		4/17/2019 09:53
Copper	< 0.0400	mg/L		4/17/2019 09:53
Iron	**1.21**	mg/L		4/17/2019 09:53
Lead	< 0.0100	mg/L		4/17/2019 09:53
Magnesium	**71.5**	mg/L		4/17/2019 09:53
Manganese	**0.131**	mg/L		4/17/2019 09:53
Nickel	< 0.0400	mg/L		4/17/2019 09:53
Potassium	**12.6**	mg/L		4/17/2019 09:53
Selenium	< 0.0200	mg/L		4/17/2019 09:53
Silver	< 0.0100	mg/L		4/17/2019 09:53
Sodium	**305**	mg/L		4/17/2019 09:53
Thallium	< 0.0250	mg/L		4/17/2019 09:53
Vanadium	< 0.0250	mg/L		4/17/2019 09:53
Zinc	< 0.0600	mg/L		4/17/2019 09:53

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 4/3/2019
Data File: 190417A

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MWR-102
Lab Sample ID: 191302-09 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		4/11/2019 18:21
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		4/11/2019 18:21
1,2,4-Trichlorobenzene	< 10.0	ug/L		4/11/2019 18:21
1,2-Dichlorobenzene	< 10.0	ug/L		4/11/2019 18:21
1,3-Dichlorobenzene	< 10.0	ug/L		4/11/2019 18:21
1,4-Dichlorobenzene	< 10.0	ug/L		4/11/2019 18:21
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		4/11/2019 18:21
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		4/11/2019 18:21
2,4,5-Trichlorophenol	< 20.0	ug/L		4/11/2019 18:21
2,4,6-Trichlorophenol	< 10.0	ug/L		4/11/2019 18:21
2,4-Dichlorophenol	< 10.0	ug/L		4/11/2019 18:21
2,4-Dimethylphenol	< 20.0	ug/L		4/11/2019 18:21
2,4-Dinitrophenol	< 20.0	ug/L		4/11/2019 18:21
2,4-Dinitrotoluene	< 10.0	ug/L		4/11/2019 18:21
2,6-Dinitrotoluene	< 10.0	ug/L		4/11/2019 18:21
2-Chloronaphthalene	< 10.0	ug/L		4/11/2019 18:21
2-Chlorophenol	< 10.0	ug/L		4/11/2019 18:21
2-Methylnapthalene	< 10.0	ug/L		4/11/2019 18:21
2-Methylphenol	< 10.0	ug/L		4/11/2019 18:21
2-Nitroaniline	< 20.0	ug/L		4/11/2019 18:21
2-Nitrophenol	< 10.0	ug/L		4/11/2019 18:21
3&4-Methylphenol	< 10.0	ug/L		4/11/2019 18:21
3,3'-Dichlorobenzidine	< 10.0	ug/L		4/11/2019 18:21
3-Nitroaniline	< 20.0	ug/L		4/11/2019 18:21
4,6-Dinitro-2-methylphenol	< 20.0	ug/L		4/11/2019 18:21
4-Bromophenyl phenyl ether	< 10.0	ug/L		4/11/2019 18:21
4-Chloro-3-methylphenol	< 10.0	ug/L		4/11/2019 18:21

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier:	MWR-102		
Lab Sample ID:	191302-09	**Date Sampled:**	4/2/2019
Matrix:	Groundwater	**Date Received:**	4/2/2019

4-Chloroaniline	< 10.0	ug/L	4/11/2019	18:21
4-Chlorophenyl phenyl ether	< 10.0	ug/L	4/11/2019	18:21
4-Nitroaniline	< 20.0	ug/L	4/11/2019	18:21
4-Nitrophenol	< 20.0	ug/L	4/11/2019	18:21
Acenaphthene	< 10.0	ug/L	4/11/2019	18:21
Acenaphthylene	< 10.0	ug/L	4/11/2019	18:21
Acetophenone	< 10.0	ug/L	4/11/2019	18:21
Anthracene	< 10.0	ug/L	4/11/2019	18:21
Atrazine	< 10.0	ug/L	4/11/2019	18:21
Benzaldehyde	< 10.0	ug/L	4/11/2019	18:21
Benzo (a) anthracene	< 10.0	ug/L	4/11/2019	18:21
Benzo (a) pyrene	< 10.0	ug/L	4/11/2019	18:21
Benzo (b) fluoranthene	< 10.0	ug/L	4/11/2019	18:21
Benzo (g,h,i) perylene	< 10.0	ug/L	4/11/2019	18:21
Benzo (k) fluoranthene	< 10.0	ug/L	4/11/2019	18:21
Bis (2-chloroethoxy) methane	< 10.0	ug/L	4/11/2019	18:21
Bis (2-chloroethyl) ether	< 10.0	ug/L	4/11/2019	18:21
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	4/11/2019	18:21
Butylbenzylphthalate	< 10.0	ug/L	4/11/2019	18:21
Caprolactam	< 10.0	ug/L	4/11/2019	18:21
Carbazole	< 10.0	ug/L	4/11/2019	18:21
Chrysene	< 10.0	ug/L	4/11/2019	18:21
Dibenz (a,h) anthracene	< 10.0	ug/L	4/11/2019	18:21
Dibenzofuran	< 10.0	ug/L	4/11/2019	18:21
Diethyl phthalate	< 10.0	ug/L	4/11/2019	18:21
Dimethyl phthalate	< 20.0	ug/L	4/11/2019	18:21
Di-n-butyl phthalate	< 10.0	ug/L	4/11/2019	18:21
Di-n-octylphthalate	< 10.0	ug/L	4/11/2019	18:21
Fluoranthene	< 10.0	ug/L	4/11/2019	18:21
Fluorene	< 10.0	ug/L	4/11/2019	18:21

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MWR-102
Lab Sample ID: 191302-09 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Hexachlorobenzene	< 10.0	ug/L		4/11/2019 18:21
Hexachlorobutadiene	< 10.0	ug/L		4/11/2019 18:21
Hexachlorocyclopentadiene	< 10.0	ug/L		4/11/2019 18:21
Hexachloroethane	< 10.0	ug/L		4/11/2019 18:21
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L		4/11/2019 18:21
Isophorone	< 10.0	ug/L		4/11/2019 18:21
Naphthalene	< 10.0	ug/L		4/11/2019 18:21
Nitrobenzene	< 10.0	ug/L		4/11/2019 18:21
N-Nitroso-di-n-propylamine	< 10.0	ug/L		4/11/2019 18:21
N-Nitrosodiphenylamine	< 10.0	ug/L		4/11/2019 18:21
Pentachlorophenol	< 20.0	ug/L		4/11/2019 18:21
Phenanthrene	< 10.0	ug/L		4/11/2019 18:21
Phenol	< 10.0	ug/L		4/11/2019 18:21
Pyrene	< 10.0	ug/L		4/11/2019 18:21

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**41.0**	47.9 - 130	*	4/11/2019 18:21
2-Fluorobiphenyl	**20.6**	30.8 - 101	*	4/11/2019 18:21
2-Fluorophenol	**21.5**	10 - 113		4/11/2019 18:21
Nitrobenzene-d5	**34.9**	48.6 - 102	*	4/11/2019 18:21
Phenol-d5	**15.5**	10 - 111		4/11/2019 18:21
Terphenyl-d14	**43.9**	57.2 - 111	*	4/11/2019 18:21

Surrogate outliers likely due to 2x Internal Standard added

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 4/5/2019
Data File: B36041.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier:	MWR-102		
Lab Sample ID:	191302-09	**Date Sampled:**	4/2/2019
Matrix:	Groundwater	**Date Received:**	4/2/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		4/11/2019 21:25
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		4/11/2019 21:25
1,1,2-Trichloroethane	< 2.00	ug/L		4/11/2019 21:25
1,1-Dichloroethane	< 2.00	ug/L		4/11/2019 21:25
1,1-Dichloroethene	< 2.00	ug/L		4/11/2019 21:25
1,2,3-Trichlorobenzene	< 5.00	ug/L		4/11/2019 21:25
1,2,4-Trichlorobenzene	< 5.00	ug/L		4/11/2019 21:25
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		4/11/2019 21:25
1,2-Dibromoethane	< 2.00	ug/L		4/11/2019 21:25
1,2-Dichlorobenzene	< 2.00	ug/L		4/11/2019 21:25
1,2-Dichloroethane	< 2.00	ug/L		4/11/2019 21:25
1,2-Dichloropropane	< 2.00	ug/L		4/11/2019 21:25
1,3-Dichlorobenzene	< 2.00	ug/L		4/11/2019 21:25
1,4-Dichlorobenzene	< 2.00	ug/L		4/11/2019 21:25
1,4-Dioxane	< 20.0	ug/L		4/11/2019 21:25
2-Butanone	< 10.0	ug/L		4/11/2019 21:25
2-Hexanone	< 5.00	ug/L		4/11/2019 21:25
4-Methyl-2-pentanone	< 5.00	ug/L		4/11/2019 21:25
Acetone	< 10.0	ug/L		4/11/2019 21:25
Benzene	< 1.00	ug/L		4/11/2019 21:25
Bromochloromethane	< 5.00	ug/L		4/11/2019 21:25
Bromodichloromethane	< 2.00	ug/L		4/11/2019 21:25
Bromoform	< 5.00	ug/L		4/11/2019 21:25
Bromomethane	< 2.00	ug/L		4/11/2019 21:25
Carbon disulfide	< 2.00	ug/L		4/11/2019 21:25
Carbon Tetrachloride	< 2.00	ug/L		4/11/2019 21:25
Chlorobenzene	< 2.00	ug/L		4/11/2019 21:25

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MWR-102
Lab Sample ID: 191302-09 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Chloroethane	< 2.00	ug/L		4/11/2019	21:25
Chloroform	< 2.00	ug/L		4/11/2019	21:25
Chloromethane	< 2.00	ug/L		4/11/2019	21:25
cis-1,2-Dichloroethene	**1.53**	ug/L	J	4/11/2019	21:25
cis-1,3-Dichloropropene	< 2.00	ug/L		4/11/2019	21:25
Cyclohexane	< 10.0	ug/L		4/11/2019	21:25
Dibromochloromethane	< 2.00	ug/L		4/11/2019	21:25
Dichlorodifluoromethane	< 2.00	ug/L		4/11/2019	21:25
Ethylbenzene	< 2.00	ug/L		4/11/2019	21:25
Freon 113	< 2.00	ug/L		4/11/2019	21:25
Isopropylbenzene	< 2.00	ug/L		4/11/2019	21:25
m,p-Xylene	< 2.00	ug/L		4/11/2019	21:25
Methyl acetate	< 2.00	ug/L		4/11/2019	21:25
Methyl tert-butyl Ether	**20.7**	ug/L		4/11/2019	21:25
Methylcyclohexane	< 2.00	ug/L		4/11/2019	21:25
Methylene chloride	< 5.00	ug/L		4/11/2019	21:25
o-Xylene	< 2.00	ug/L		4/11/2019	21:25
Styrene	< 5.00	ug/L		4/11/2019	21:25
Tetrachloroethene	< 2.00	ug/L		4/11/2019	21:25
Toluene	< 2.00	ug/L		4/11/2019	21:25
trans-1,2-Dichloroethene	< 2.00	ug/L		4/11/2019	21:25
trans-1,3-Dichloropropene	< 2.00	ug/L		4/11/2019	21:25
Trichloroethene	< 2.00	ug/L		4/11/2019	21:25
Trichlorofluoromethane	< 2.00	ug/L		4/11/2019	21:25
Vinyl chloride	< 2.00	ug/L		4/11/2019	21:25

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: MWR-102
Lab Sample ID: 191302-09 **Date Sampled:** 4/2/2019
Matrix: Groundwater **Date Received:** 4/2/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**153**	71.4 - 133	*	4/11/2019	21:25
4-Bromofluorobenzene	**78.8**	61.7 - 126		4/11/2019	21:25
Pentafluorobenzene	**91.2**	87.4 - 109		4/11/2019	21:25
Toluene-D8	**87.0**	82.3 - 112		4/11/2019	21:25

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x59924.D

Report Prepared Thursday, April 18, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier:	Trip Blank T900		
Lab Sample ID:	191302-10	**Date Sampled:**	4/2/2019
Matrix:	Water	**Date Received:**	4/2/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		4/11/2019 18:23
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		4/11/2019 18:23
1,1,2-Trichloroethane	< 2.00	ug/L		4/11/2019 18:23
1,1-Dichloroethane	< 2.00	ug/L		4/11/2019 18:23
1,1-Dichloroethene	< 2.00	ug/L		4/11/2019 18:23
1,2,3-Trichlorobenzene	< 5.00	ug/L		4/11/2019 18:23
1,2,4-Trichlorobenzene	< 5.00	ug/L		4/11/2019 18:23
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		4/11/2019 18:23
1,2-Dibromoethane	< 2.00	ug/L		4/11/2019 18:23
1,2-Dichlorobenzene	< 2.00	ug/L		4/11/2019 18:23
1,2-Dichloroethane	< 2.00	ug/L		4/11/2019 18:23
1,2-Dichloropropane	< 2.00	ug/L		4/11/2019 18:23
1,3-Dichlorobenzene	< 2.00	ug/L		4/11/2019 18:23
1,4-Dichlorobenzene	< 2.00	ug/L		4/11/2019 18:23
1,4-Dioxane	< 20.0	ug/L		4/11/2019 18:23
2-Butanone	< 10.0	ug/L		4/11/2019 18:23
2-Hexanone	< 5.00	ug/L		4/11/2019 18:23
4-Methyl-2-pentanone	< 5.00	ug/L		4/11/2019 18:23
Acetone	< 10.0	ug/L		4/11/2019 18:23
Benzene	< 1.00	ug/L		4/11/2019 18:23
Bromochloromethane	< 5.00	ug/L		4/11/2019 18:23
Bromodichloromethane	< 2.00	ug/L		4/11/2019 18:23
Bromoform	< 5.00	ug/L		4/11/2019 18:23
Bromomethane	< 2.00	ug/L		4/11/2019 18:23
Carbon disulfide	< 2.00	ug/L		4/11/2019 18:23
Carbon Tetrachloride	< 2.00	ug/L		4/11/2019 18:23
Chlorobenzene	< 2.00	ug/L		4/11/2019 18:23

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: Trip Blank T900
Lab Sample ID: 191302-10 **Date Sampled:** 4/2/2019
Matrix: Water **Date Received:** 4/2/2019

Chloroethane	< 2.00	ug/L	4/11/2019	18:23
Chloroform	< 2.00	ug/L	4/11/2019	18:23
Chloromethane	< 2.00	ug/L	4/11/2019	18:23
cis-1,2-Dichloroethene	< 2.00	ug/L	4/11/2019	18:23
cis-1,3-Dichloropropene	< 2.00	ug/L	4/11/2019	18:23
Cyclohexane	< 10.0	ug/L	4/11/2019	18:23
Dibromochloromethane	< 2.00	ug/L	4/11/2019	18:23
Dichlorodifluoromethane	< 2.00	ug/L	4/11/2019	18:23
Ethylbenzene	< 2.00	ug/L	4/11/2019	18:23
Freon 113	< 2.00	ug/L	4/11/2019	18:23
Isopropylbenzene	< 2.00	ug/L	4/11/2019	18:23
m,p-Xylene	< 2.00	ug/L	4/11/2019	18:23
Methyl acetate	< 2.00	ug/L	4/11/2019	18:23
Methyl tert-butyl Ether	< 2.00	ug/L	4/11/2019	18:23
Methylcyclohexane	< 2.00	ug/L	4/11/2019	18:23
Methylene chloride	< 5.00	ug/L	4/11/2019	18:23
o-Xylene	< 2.00	ug/L	4/11/2019	18:23
Styrene	< 5.00	ug/L	4/11/2019	18:23
Tetrachloroethene	< 2.00	ug/L	4/11/2019	18:23
Toluene	< 2.00	ug/L	4/11/2019	18:23
trans-1,2-Dichloroethene	< 2.00	ug/L	4/11/2019	18:23
trans-1,3-Dichloropropene	< 2.00	ug/L	4/11/2019	18:23
Trichloroethene	< 2.00	ug/L	4/11/2019	18:23
Trichlorofluoromethane	< 2.00	ug/L	4/11/2019	18:23
Vinyl chloride	< 2.00	ug/L	4/11/2019	18:23

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 191302

Client: **Bergmann Associates**

Project Reference: VOA 1st Qtr 2019 Backlot

Sample Identifier: Trip Blank T900
Lab Sample ID: 191302-10 **Date Sampled:** 4/2/2019
Matrix: Water **Date Received:** 4/2/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**139**	71.4 - 133	*	4/11/2019 18:23
4-Bromofluorobenzene	**78.7**	61.7 - 126		4/11/2019 18:23
Pentafluorobenzene	**88.8**	87.4 - 109		4/11/2019 18:23
Toluene-D8	**87.2**	82.3 - 112		4/11/2019 18:23

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x59916.D

Report Prepared Thursday, April 18, 2019

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

Page 1 of 2

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:		
CLIENT: Bergmann		CLIENT: same		LAB PROJECT ID: 191302
ADDRESS:		ADDRESS:		
CITY: STATE: ZIP		CITY: STATE: ZIP:		Quotation #:
PHONE:		PHONE:		Email:
ATTN:		ATTN:		

PROJECT REFERENCE: VOA 1st Qtr 2019 BackLot

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	8260 TCL poly preserved	8270 TCL soil jar	METALS TAL	REMARKS	PARADIGM LAB SAMPLE NUMBER
4/2/19	1000		X	MW-103	WG	4	X	X	X		01
4/2/19	1000		X	MW-103 MS	WG	4	X	X	X		
4/2/19	1000		X	MW-103 MSD	WG	4	X	X	X		
4/2/19	1000		X	Blind Dup.	WG	3	X	X	X	metals supplement rcvd MY 4/12/19	02
4/2/19	1115		X	MW-107	WG	4	X	X	X	per email, Transferred some	03
4/2/19	1215		X	MW-105	WG	4	X	X	X	sample (01) into pres poly for metals 02 MY 4/3/19	04
4/2/19	1335		X	MW-106	WG	4	X	X	X		05
4/2/19	1420		X	MW-101	WG	4	X	X	X		06
4/2/19	1440		X	MW-101	WG	4	X	X	X		07
4/2/19	1500		X	MW-102	WG	4	X	X	X	1°C iced 4/2/19 1535hrs custody seals NA client delivered MY 4/12/19	08

ASP CAT B

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	None Required	☐	None Required	☐
10 day	☒	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Date Needed _____ please indicate date needed:		Other ☐ please indicate package needed:		Other EDD ☐ please indicate EDD needed :	

Sampled By: Stephanie Miller — Date/Time: 4/2/19 1530

Relinquished By: [signature] — Date/Time: 4/2/19 1530

Received By: [signature] — Date/Time: 4/2/19 1545

Received @ Lab By: [signature] — Date/Time

Total Cost:

P.I.F.

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

Page 2 of 2

PARADIGM
ENVIRONMENTAL SERVICES, INC

CHAIN OF CUSTODY

REPORT TO:	INVOICE TO:	LAB PROJECT ID
CLIENT: Bergmann	CLIENT:	191302
ADDRESS:	ADDRESS:	
CITY: STATE: ZIP	CITY: STATE: ZIP:	Quotation #:
PHONE:	PHONE:	Email:
ATTN:	ATTN:	

PROJECT REFERENCE
VOA 1st Qtr. 2019 Brick lot

Matrix Codes:
AQ - Aqueous Liquid, NQ - Non-Aqueous Liquid, WA - Water, WG - Groundwater, DW - Drinking Water, WW - Wastewater, SO - Soil, SL - Sludge, SD - Solid, PT - Paint, WP - Wipe, CK - Caulk, OL - Oil, AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	8260 TCL	8270 TCL	Methanol/TAL	REMARKS	PARADIGM LAB SAMPLE NUMBER
4/2/19	1510		X	MWR-102	WG	4	X	X	X		09
4/2/19				Trip Blank T900	W	1	X				10

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	None Required	☐	None Required	☐
10 day	☒	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Date Needed ____ please indicate date needed:		Other please indicate package needed:	☐	Other EDD please indicate EDD needed:	☐

ASP CAT B

	Date/Time
Sampled By: Stephen [signature]	4/2/19 1530
Relinquished By: [signature]	4/2/19 1530
Received By: [signature]	4/2/19 1545
Received @ Lab By	

Total Cost:

P.I.F.

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

PARADIGM

Chain of Custody Supplement

Client: Bergmann **Completed by:** Molly Vail

Lab Project ID: 191302 **Date:** 9/2/19

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	VOA		met, SVOA
Comments			
Preservation	VOA, met		SVOA
Comments			
Chlorine Absent (<0.10 ppm per test strip)			
Comments			
Holding Time	X		
Comments			
Temperature	X		met
Comments			
Sufficient Sample Quantity	X		
Comments	NO Bottle cert for metals. Not sampled in certified bottles		

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MW-101		
Lab Sample ID:	192983-01	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		7/9/2019 09:59

Method Reference(s): EPA 7470A
Preparation Date: 7/8/2019
Data File: Hg190709A

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Monday, July 15, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MW-101		
Lab Sample ID:	192983-01	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**0.0836**	mg/L	J	7/1/2019 14:33
Antimony	< 0.0600	mg/L		7/1/2019 14:33
Arsenic	< 0.0100	mg/L		7/1/2019 14:33
Barium	**0.135**	mg/L		7/1/2019 14:33
Beryllium	< 0.00500	mg/L		7/1/2019 14:33
Cadmium	< 0.00500	mg/L		7/1/2019 14:33
Calcium	**111**	mg/L		7/1/2019 14:33
Chromium	**0.0116**	mg/L		7/1/2019 14:33
Cobalt	< 0.0500	mg/L		7/1/2019 14:33
Copper	< 0.0400	mg/L		7/1/2019 14:33
Iron	**9.32**	mg/L		7/1/2019 14:33
Lead	< 0.0100	mg/L		7/1/2019 14:33
Magnesium	**28.3**	mg/L		7/1/2019 14:33
Manganese	**0.587**	mg/L		7/1/2019 14:33
Nickel	< 0.0400	mg/L		7/1/2019 14:33
Potassium	**8.28**	mg/L		7/1/2019 14:33
Selenium	< 0.0200	mg/L		7/8/2019 15:44
Silver	< 0.0100	mg/L		7/1/2019 14:33
Sodium	**132**	mg/L		7/1/2019 14:33
Thallium	< 0.0250	mg/L		7/1/2019 14:33
Vanadium	< 0.0250	mg/L		7/1/2019 14:33
Zinc	< 0.0600	mg/L		7/1/2019 14:33

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 6/28/2019
Data File: 19070C

Report Prepared Monday, July 15, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MW-101		
Lab Sample ID:	192983-01	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		7/2/2019 20:24
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		7/2/2019 20:24
1,2,4-Trichlorobenzene	< 10.0	ug/L		7/2/2019 20:24
1,2-Dichlorobenzene	< 10.0	ug/L		7/2/2019 20:24
1,3-Dichlorobenzene	< 10.0	ug/L		7/2/2019 20:24
1,4-Dichlorobenzene	< 10.0	ug/L		7/2/2019 20:24
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		7/2/2019 20:24
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		7/2/2019 20:24
2,4,5-Trichlorophenol	< 20.0	ug/L		7/2/2019 20:24
2,4,6-Trichlorophenol	< 10.0	ug/L		7/2/2019 20:24
2,4-Dichlorophenol	< 10.0	ug/L		7/2/2019 20:24
2,4-Dimethylphenol	< 20.0	ug/L		7/2/2019 20:24
2,4-Dinitrophenol	< 20.0	ug/L		7/2/2019 20:24
2,4-Dinitrotoluene	< 10.0	ug/L		7/2/2019 20:24
2,6-Dinitrotoluene	< 10.0	ug/L		7/2/2019 20:24
2-Chloronaphthalene	< 10.0	ug/L		7/2/2019 20:24
2-Chlorophenol	< 10.0	ug/L		7/2/2019 20:24
2-Methylnapthalene	< 10.0	ug/L		7/2/2019 20:24
2-Methylphenol	< 10.0	ug/L		7/2/2019 20:24
2-Nitroaniline	< 20.0	ug/L		7/2/2019 20:24
2-Nitrophenol	< 10.0	ug/L		7/2/2019 20:24
3&4-Methylphenol	< 10.0	ug/L		7/2/2019 20:24
3,3'-Dichlorobenzidine	< 10.0	ug/L		7/2/2019 20:24
3-Nitroaniline	< 20.0	ug/L		7/2/2019 20:24
4,6-Dinitro-2-methylphenol	< 20.0	ug/L		7/2/2019 20:24
4-Bromophenyl phenyl ether	< 10.0	ug/L		7/2/2019 20:24
4-Chloro-3-methylphenol	< 10.0	ug/L		7/2/2019 20:24

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MW-101		
Lab Sample ID:	192983-01	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

4-Chloroaniline	< 10.0	ug/L	7/2/2019 20:24
4-Chlorophenyl phenyl ether	< 10.0	ug/L	7/2/2019 20:24
4-Nitroaniline	< 20.0	ug/L	7/2/2019 20:24
4-Nitrophenol	< 20.0	ug/L	7/2/2019 20:24
Acenaphthene	< 10.0	ug/L	7/2/2019 20:24
Acenaphthylene	< 10.0	ug/L	7/2/2019 20:24
Acetophenone	< 10.0	ug/L	7/2/2019 20:24
Anthracene	< 10.0	ug/L	7/2/2019 20:24
Atrazine	< 10.0	ug/L	7/2/2019 20:24
Benzaldehyde	< 10.0	ug/L	7/2/2019 20:24
Benzo (a) anthracene	< 10.0	ug/L	7/2/2019 20:24
Benzo (a) pyrene	< 10.0	ug/L	7/2/2019 20:24
Benzo (b) fluoranthene	< 10.0	ug/L	7/2/2019 20:24
Benzo (g,h,i) perylene	< 10.0	ug/L	7/2/2019 20:24
Benzo (k) fluoranthene	< 10.0	ug/L	7/2/2019 20:24
Bis (2-chloroethoxy) methane	< 10.0	ug/L	7/2/2019 20:24
Bis (2-chloroethyl) ether	< 10.0	ug/L	7/2/2019 20:24
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	7/2/2019 20:24
Butylbenzylphthalate	< 10.0	ug/L	7/2/2019 20:24
Caprolactam	< 10.0	ug/L	7/2/2019 20:24
Carbazole	< 10.0	ug/L	7/2/2019 20:24
Chrysene	< 10.0	ug/L	7/2/2019 20:24
Dibenz (a,h) anthracene	< 10.0	ug/L	7/2/2019 20:24
Dibenzofuran	< 10.0	ug/L	7/2/2019 20:24
Diethyl phthalate	< 10.0	ug/L	7/2/2019 20:24
Dimethyl phthalate	< 20.0	ug/L	7/2/2019 20:24
Di-n-butyl phthalate	< 10.0	ug/L	7/2/2019 20:24
Di-n-octylphthalate	< 10.0	ug/L	7/2/2019 20:24
Fluoranthene	< 10.0	ug/L	7/2/2019 20:24
Fluorene	< 10.0	ug/L	7/2/2019 20:24

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier: MW-101
Lab Sample ID: 192983-01 **Date Sampled:** 6/27/2019
Matrix: Groundwater **Date Received:** 6/27/2019

Hexachlorobenzene	< 10.0	ug/L	7/2/2019	20:24
Hexachlorobutadiene	< 10.0	ug/L	7/2/2019	20:24
Hexachlorocyclopentadiene	< 10.0	ug/L	7/2/2019	20:24
Hexachloroethane	< 10.0	ug/L	7/2/2019	20:24
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	7/2/2019	20:24
Isophorone	< 10.0	ug/L	7/2/2019	20:24
Naphthalene	< 10.0	ug/L	7/2/2019	20:24
Nitrobenzene	< 10.0	ug/L	7/2/2019	20:24
N-Nitroso-di-n-propylamine	< 10.0	ug/L	7/2/2019	20:24
N-Nitrosodiphenylamine	< 10.0	ug/L	7/2/2019	20:24
Pentachlorophenol	< 20.0	ug/L	7/2/2019	20:24
Phenanthrene	< 10.0	ug/L	7/2/2019	20:24
Phenol	< 10.0	ug/L	7/2/2019	20:24
Pyrene	< 10.0	ug/L	7/2/2019	20:24

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**69.6**	54.2 - 126		7/2/2019	20:24
2-Fluorobiphenyl	**40.6**	37.6 - 102		7/2/2019	20:24
2-Fluorophenol	**43.0**	15.1 - 106		7/2/2019	20:24
Nitrobenzene-d5	**69.0**	53.3 - 103		7/2/2019	20:24
Phenol-d5	**27.8**	10 - 108		7/2/2019	20:24
Terphenyl-d14	**81.8**	61.8 - 114		7/2/2019	20:24

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 7/1/2019
Data File: B38347.D

Report Prepared Monday, July 15, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MW-101		
Lab Sample ID:	192983-01	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		7/10/2019 15:45
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		7/10/2019 15:45
1,1,2-Trichloroethane	< 2.00	ug/L		7/10/2019 15:45
1,1-Dichloroethane	< 2.00	ug/L		7/10/2019 15:45
1,1-Dichloroethene	< 2.00	ug/L		7/10/2019 15:45
1,2,3-Trichlorobenzene	< 5.00	ug/L		7/10/2019 15:45
1,2,4-Trichlorobenzene	< 5.00	ug/L		7/10/2019 15:45
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		7/10/2019 15:45
1,2-Dibromoethane	< 2.00	ug/L		7/10/2019 15:45
1,2-Dichlorobenzene	< 2.00	ug/L		7/10/2019 15:45
1,2-Dichloroethane	< 2.00	ug/L		7/10/2019 15:45
1,2-Dichloropropane	< 2.00	ug/L		7/10/2019 15:45
1,3-Dichlorobenzene	< 2.00	ug/L		7/10/2019 15:45
1,4-Dichlorobenzene	< 2.00	ug/L		7/10/2019 15:45
1,4-Dioxane	< 20.0	ug/L		7/10/2019 15:45
2-Butanone	< 10.0	ug/L		7/10/2019 15:45
2-Hexanone	< 5.00	ug/L		7/10/2019 15:45
4-Methyl-2-pentanone	< 5.00	ug/L		7/10/2019 15:45
Acetone	< 10.0	ug/L		7/10/2019 15:45
Benzene	< 1.00	ug/L		7/10/2019 15:45
Bromochloromethane	< 5.00	ug/L		7/10/2019 15:45
Bromodichloromethane	< 2.00	ug/L		7/10/2019 15:45
Bromoform	< 5.00	ug/L		7/10/2019 15:45
Bromomethane	< 2.00	ug/L		7/10/2019 15:45
Carbon disulfide	< 2.00	ug/L		7/10/2019 15:45
Carbon Tetrachloride	< 2.00	ug/L		7/10/2019 15:45
Chlorobenzene	< 2.00	ug/L		7/10/2019 15:45

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier: MW-101
Lab Sample ID: 192983-01 **Date Sampled:** 6/27/2019
Matrix: Groundwater **Date Received:** 6/27/2019

Chloroethane	< 2.00	ug/L	7/10/2019	15:45
Chloroform	< 2.00	ug/L	7/10/2019	15:45
Chloromethane	< 2.00	ug/L	7/10/2019	15:45
cis-1,2-Dichloroethene	< 2.00	ug/L	7/10/2019	15:45
cis-1,3-Dichloropropene	< 2.00	ug/L	7/10/2019	15:45
Cyclohexane	< 10.0	ug/L	7/10/2019	15:45
Dibromochloromethane	< 2.00	ug/L	7/10/2019	15:45
Dichlorodifluoromethane	< 2.00	ug/L	7/10/2019	15:45
Ethylbenzene	< 2.00	ug/L	7/10/2019	15:45
Freon 113	< 2.00	ug/L	7/10/2019	15:45
Isopropylbenzene	< 2.00	ug/L	7/10/2019	15:45
m,p-Xylene	< 2.00	ug/L	7/10/2019	15:45
Methyl acetate	< 2.00	ug/L	7/10/2019	15:45
Methyl tert-butyl Ether	< 2.00	ug/L	7/10/2019	15:45
Methylcyclohexane	< 2.00	ug/L	7/10/2019	15:45
Methylene chloride	< 5.00	ug/L	7/10/2019	15:45
o-Xylene	< 2.00	ug/L	7/10/2019	15:45
Styrene	< 5.00	ug/L	7/10/2019	15:45
Tetrachloroethene	< 2.00	ug/L	7/10/2019	15:45
Toluene	< 2.00	ug/L	7/10/2019	15:45
trans-1,2-Dichloroethene	< 2.00	ug/L	7/10/2019	15:45
trans-1,3-Dichloropropene	< 2.00	ug/L	7/10/2019	15:45
Trichloroethene	< 2.00	ug/L	7/10/2019	15:45
Trichlorofluoromethane	< 2.00	ug/L	7/10/2019	15:45
Vinyl chloride	< 2.00	ug/L	7/10/2019	15:45

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier: MW-101
Lab Sample ID: 192983-01 **Date Sampled:** 6/27/2019
Matrix: Groundwater **Date Received:** 6/27/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**130**	73.4 - 131		7/10/2019	15:45
4-Bromofluorobenzene	**89.4**	57.2 - 129		7/10/2019	15:45
Pentafluorobenzene	**85.4**	87 - 112	*	7/10/2019	15:45
Toluene-D8	**95.4**	78.3 - 115		7/10/2019	15:45

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x62496.D

Report Prepared Monday, July 15, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MWR-101		
Lab Sample ID:	192983-02	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		7/9/2019 10:01

Method Reference(s): EPA 7470A
Preparation Date: 7/8/2019
Data File: Hg190709A

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Monday, July 15, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MWR-101		
Lab Sample ID:	192983-02	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**8.21**	mg/L		7/1/2019 14:37
Antimony	< 0.0600	mg/L		7/1/2019 14:37
Arsenic	**0.0109**	mg/L		7/3/2019 16:03
Barium	< 0.100	mg/L		7/1/2019 14:37
Beryllium	< 0.00500	mg/L		7/1/2019 14:37
Cadmium	< 0.00500	mg/L		7/1/2019 14:37
Calcium	**7.39**	mg/L		7/1/2019 14:37
Chromium	**0.0130**	mg/L		7/1/2019 14:37
Cobalt	< 0.0500	mg/L		7/1/2019 14:37
Copper	**0.0275**	mg/L		7/1/2019 14:37
Iron	**4.12**	mg/L		7/1/2019 14:37
Lead	**0.0440**	mg/L		7/1/2019 14:37
Magnesium	**3.85**	mg/L		7/1/2019 14:37
Manganese	**0.0486**	mg/L		7/1/2019 14:37
Nickel	< 0.0400	mg/L		7/1/2019 14:37
Potassium	**5.42**	mg/L		7/1/2019 14:37
Selenium	< 0.0200	mg/L		7/8/2019 15:48
Silver	< 0.0100	mg/L		7/1/2019 14:37
Sodium	**340**	mg/L	E	7/1/2019 14:37
Thallium	< 0.0250	mg/L		7/1/2019 14:37
Vanadium	**0.0171**	mg/L	J	7/1/2019 14:37
Zinc	**0.139**	mg/L		7/1/2019 14:37

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 6/28/2019
Data File: 19070C

Report Prepared Monday, July 15, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MWR-101		
Lab Sample ID:	192983-02	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 11.0	ug/L		7/2/2019 20:53
1,2,4,5-Tetrachlorobenzene	< 11.0	ug/L		7/2/2019 20:53
1,2,4-Trichlorobenzene	< 11.0	ug/L		7/2/2019 20:53
1,2-Dichlorobenzene	< 11.0	ug/L		7/2/2019 20:53
1,3-Dichlorobenzene	< 11.0	ug/L		7/2/2019 20:53
1,4-Dichlorobenzene	< 11.0	ug/L		7/2/2019 20:53
2,2-Oxybis (1-chloropropane)	< 11.0	ug/L		7/2/2019 20:53
2,3,4,6-Tetrachlorophenol	< 11.0	ug/L		7/2/2019 20:53
2,4,5-Trichlorophenol	< 22.1	ug/L		7/2/2019 20:53
2,4,6-Trichlorophenol	< 11.0	ug/L		7/2/2019 20:53
2,4-Dichlorophenol	< 11.0	ug/L		7/2/2019 20:53
2,4-Dimethylphenol	< 22.1	ug/L		7/2/2019 20:53
2,4-Dinitrophenol	< 22.1	ug/L		7/2/2019 20:53
2,4-Dinitrotoluene	< 11.0	ug/L		7/2/2019 20:53
2,6-Dinitrotoluene	< 11.0	ug/L		7/2/2019 20:53
2-Chloronaphthalene	< 11.0	ug/L		7/2/2019 20:53
2-Chlorophenol	< 11.0	ug/L		7/2/2019 20:53
2-Methylnapthalene	< 11.0	ug/L		7/2/2019 20:53
2-Methylphenol	< 11.0	ug/L		7/2/2019 20:53
2-Nitroaniline	< 22.1	ug/L		7/2/2019 20:53
2-Nitrophenol	< 11.0	ug/L		7/2/2019 20:53
3&4-Methylphenol	< 11.0	ug/L		7/2/2019 20:53
3,3'-Dichlorobenzidine	< 11.0	ug/L		7/2/2019 20:53
3-Nitroaniline	< 22.1	ug/L		7/2/2019 20:53
4,6-Dinitro-2-methylphenol	< 22.1	ug/L		7/2/2019 20:53
4-Bromophenyl phenyl ether	< 11.0	ug/L		7/2/2019 20:53
4-Chloro-3-methylphenol	< 11.0	ug/L		7/2/2019 20:53

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MWR-101		
Lab Sample ID:	192983-02	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

4-Chloroaniline	< 11.0	ug/L	7/2/2019	20:53
4-Chlorophenyl phenyl ether	< 11.0	ug/L	7/2/2019	20:53
4-Nitroaniline	< 22.1	ug/L	7/2/2019	20:53
4-Nitrophenol	< 22.1	ug/L	7/2/2019	20:53
Acenaphthene	< 11.0	ug/L	7/2/2019	20:53
Acenaphthylene	< 11.0	ug/L	7/2/2019	20:53
Acetophenone	< 11.0	ug/L	7/2/2019	20:53
Anthracene	< 11.0	ug/L	7/2/2019	20:53
Atrazine	< 11.0	ug/L	7/2/2019	20:53
Benzaldehyde	< 11.0	ug/L	7/2/2019	20:53
Benzo (a) anthracene	< 11.0	ug/L	7/2/2019	20:53
Benzo (a) pyrene	< 11.0	ug/L	7/2/2019	20:53
Benzo (b) fluoranthene	< 11.0	ug/L	7/2/2019	20:53
Benzo (g,h,i) perylene	< 11.0	ug/L	7/2/2019	20:53
Benzo (k) fluoranthene	< 11.0	ug/L	7/2/2019	20:53
Bis (2-chloroethoxy) methane	< 11.0	ug/L	7/2/2019	20:53
Bis (2-chloroethyl) ether	< 11.0	ug/L	7/2/2019	20:53
Bis (2-ethylhexyl) phthalate	< 11.0	ug/L	7/2/2019	20:53
Butylbenzylphthalate	< 11.0	ug/L	7/2/2019	20:53
Caprolactam	< 11.0	ug/L	7/2/2019	20:53
Carbazole	< 11.0	ug/L	7/2/2019	20:53
Chrysene	< 11.0	ug/L	7/2/2019	20:53
Dibenz (a,h) anthracene	< 11.0	ug/L	7/2/2019	20:53
Dibenzofuran	< 11.0	ug/L	7/2/2019	20:53
Diethyl phthalate	< 11.0	ug/L	7/2/2019	20:53
Dimethyl phthalate	< 22.1	ug/L	7/2/2019	20:53
Di-n-butyl phthalate	< 11.0	ug/L	7/2/2019	20:53
Di-n-octylphthalate	< 11.0	ug/L	7/2/2019	20:53
Fluoranthene	< 11.0	ug/L	7/2/2019	20:53
Fluorene	< 11.0	ug/L	7/2/2019	20:53

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier: MWR-101
Lab Sample ID: 192983-02 **Date Sampled:** 6/27/2019
Matrix: Groundwater **Date Received:** 6/27/2019

Hexachlorobenzene	< 11.0	ug/L	7/2/2019	20:53
Hexachlorobutadiene	< 11.0	ug/L	7/2/2019	20:53
Hexachlorocyclopentadiene	< 11.0	ug/L	7/2/2019	20:53
Hexachloroethane	< 11.0	ug/L	7/2/2019	20:53
Indeno (1,2,3-cd) pyrene	< 11.0	ug/L	7/2/2019	20:53
Isophorone	< 11.0	ug/L	7/2/2019	20:53
Naphthalene	< 11.0	ug/L	7/2/2019	20:53
Nitrobenzene	< 11.0	ug/L	7/2/2019	20:53
N-Nitroso-di-n-propylamine	< 11.0	ug/L	7/2/2019	20:53
N-Nitrosodiphenylamine	< 11.0	ug/L	7/2/2019	20:53
Pentachlorophenol	< 22.1	ug/L	7/2/2019	20:53
Phenanthrene	< 11.0	ug/L	7/2/2019	20:53
Phenol	< 11.0	ug/L	7/2/2019	20:53
Pyrene	< 11.0	ug/L	7/2/2019	20:53

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**63.0**	54.2 - 126		7/2/2019	20:53
2-Fluorobiphenyl	**55.9**	37.6 - 102		7/2/2019	20:53
2-Fluorophenol	**39.1**	15.1 - 106		7/2/2019	20:53
Nitrobenzene-d5	**79.0**	53.3 - 103		7/2/2019	20:53
Phenol-d5	**26.2**	10 - 108		7/2/2019	20:53
Terphenyl-d14	**81.3**	61.8 - 114		7/2/2019	20:53

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 7/1/2019
Data File: B38348.D

Report Prepared Monday, July 15, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MWR-101		
Lab Sample ID:	192983-02	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		7/10/2019 16:07
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		7/10/2019 16:07
1,1,2-Trichloroethane	< 2.00	ug/L		7/10/2019 16:07
1,1-Dichloroethane	< 2.00	ug/L		7/10/2019 16:07
1,1-Dichloroethene	< 2.00	ug/L		7/10/2019 16:07
1,2,3-Trichlorobenzene	< 5.00	ug/L		7/10/2019 16:07
1,2,4-Trichlorobenzene	< 5.00	ug/L		7/10/2019 16:07
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		7/10/2019 16:07
1,2-Dibromoethane	< 2.00	ug/L		7/10/2019 16:07
1,2-Dichlorobenzene	< 2.00	ug/L		7/10/2019 16:07
1,2-Dichloroethane	< 2.00	ug/L		7/10/2019 16:07
1,2-Dichloropropane	< 2.00	ug/L		7/10/2019 16:07
1,3-Dichlorobenzene	< 2.00	ug/L		7/10/2019 16:07
1,4-Dichlorobenzene	< 2.00	ug/L		7/10/2019 16:07
1,4-Dioxane	< 20.0	ug/L		7/10/2019 16:07
2-Butanone	< 10.0	ug/L		7/10/2019 16:07
2-Hexanone	< 5.00	ug/L		7/10/2019 16:07
4-Methyl-2-pentanone	< 5.00	ug/L		7/10/2019 16:07
Acetone	< 10.0	ug/L		7/10/2019 16:07
Benzene	< 1.00	ug/L		7/10/2019 16:07
Bromochloromethane	< 5.00	ug/L		7/10/2019 16:07
Bromodichloromethane	< 2.00	ug/L		7/10/2019 16:07
Bromoform	< 5.00	ug/L		7/10/2019 16:07
Bromomethane	< 2.00	ug/L		7/10/2019 16:07
Carbon disulfide	< 2.00	ug/L		7/10/2019 16:07
Carbon Tetrachloride	< 2.00	ug/L		7/10/2019 16:07
Chlorobenzene	< 2.00	ug/L		7/10/2019 16:07

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier: MWR-101
Lab Sample ID: 192983-02 **Date Sampled:** 6/27/2019
Matrix: Groundwater **Date Received:** 6/27/2019

Chloroethane	< 2.00	ug/L	7/10/2019	16:07
Chloroform	< 2.00	ug/L	7/10/2019	16:07
Chloromethane	< 2.00	ug/L	7/10/2019	16:07
cis-1,2-Dichloroethene	< 2.00	ug/L	7/10/2019	16:07
cis-1,3-Dichloropropene	< 2.00	ug/L	7/10/2019	16:07
Cyclohexane	< 10.0	ug/L	7/10/2019	16:07
Dibromochloromethane	< 2.00	ug/L	7/10/2019	16:07
Dichlorodifluoromethane	< 2.00	ug/L	7/10/2019	16:07
Ethylbenzene	< 2.00	ug/L	7/10/2019	16:07
Freon 113	< 2.00	ug/L	7/10/2019	16:07
Isopropylbenzene	< 2.00	ug/L	7/10/2019	16:07
m,p-Xylene	< 2.00	ug/L	7/10/2019	16:07
Methyl acetate	< 2.00	ug/L	7/10/2019	16:07
Methyl tert-butyl Ether	< 2.00	ug/L	7/10/2019	16:07
Methylcyclohexane	< 2.00	ug/L	7/10/2019	16:07
Methylene chloride	< 5.00	ug/L	7/10/2019	16:07
o-Xylene	< 2.00	ug/L	7/10/2019	16:07
Styrene	< 5.00	ug/L	7/10/2019	16:07
Tetrachloroethene	< 2.00	ug/L	7/10/2019	16:07
Toluene	< 2.00	ug/L	7/10/2019	16:07
trans-1,2-Dichloroethene	< 2.00	ug/L	7/10/2019	16:07
trans-1,3-Dichloropropene	< 2.00	ug/L	7/10/2019	16:07
Trichloroethene	< 2.00	ug/L	7/10/2019	16:07
Trichlorofluoromethane	< 2.00	ug/L	7/10/2019	16:07
Vinyl chloride	< 2.00	ug/L	7/10/2019	16:07

Report Prepared Monday, July 15, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier: MWR-101
Lab Sample ID: 192983-02 **Date Sampled:** 6/27/2019
Matrix: Groundwater **Date Received:** 6/27/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**126**	73.4 - 131		7/10/2019	16:07
4-Bromofluorobenzene	**88.3**	57.2 - 129		7/10/2019	16:07
Pentafluorobenzene	**89.0**	87 - 112		7/10/2019	16:07
Toluene-D8	**94.2**	78.3 - 115		7/10/2019	16:07

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x62497.D

Report Prepared Monday, July 15, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MW-103		
Lab Sample ID:	192983-03	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.000203**	mg/L		7/9/2019 10:03

Method Reference(s): EPA 7470A
Preparation Date: 7/8/2019
Data File: Hg190709A

Report Prepared Monday, July 15, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MW-103		
Lab Sample ID:	192983-03	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**0.118**	mg/L		7/1/2019 14:41
Antimony	< 0.0600	mg/L		7/1/2019 14:41
Arsenic	< 0.0100	mg/L		7/3/2019 16:08
Barium	**0.191**	mg/L		7/1/2019 14:41
Beryllium	< 0.00500	mg/L		7/1/2019 14:41
Cadmium	< 0.00500	mg/L		7/1/2019 14:41
Calcium	**107**	mg/L		7/1/2019 14:41
Chromium	< 0.0100	mg/L		7/1/2019 14:41
Cobalt	< 0.0500	mg/L		7/1/2019 14:41
Copper	< 0.0400	mg/L	J	7/1/2019 14:41
Iron	**9.14**	mg/L		7/1/2019 14:41
Lead	< 0.0100	mg/L		7/1/2019 14:41
Magnesium	**26.4**	mg/L		7/1/2019 14:41
Manganese	**0.412**	mg/L		7/1/2019 14:41
Nickel	< 0.0400	mg/L		7/1/2019 14:41
Potassium	**8.65**	mg/L		7/1/2019 14:41
Selenium	**0.0113**	mg/L	J	7/8/2019 15:57
Silver	< 0.0100	mg/L		7/1/2019 14:41
Sodium	**132**	mg/L		7/1/2019 14:41
Thallium	< 0.0250	mg/L		7/1/2019 14:41
Vanadium	< 0.0250	mg/L		7/1/2019 14:41
Zinc	**0.0525**	mg/L	J	7/1/2019 14:41

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 6/28/2019
Data File: 19070C

Report Prepared Monday, July 15, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MW-103		
Lab Sample ID:	192983-03	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		7/2/2019 21:22
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		7/2/2019 21:22
1,2,4-Trichlorobenzene	< 10.0	ug/L		7/2/2019 21:22
1,2-Dichlorobenzene	< 10.0	ug/L		7/2/2019 21:22
1,3-Dichlorobenzene	< 10.0	ug/L		7/2/2019 21:22
1,4-Dichlorobenzene	< 10.0	ug/L		7/2/2019 21:22
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		7/2/2019 21:22
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		7/2/2019 21:22
2,4,5-Trichlorophenol	< 20.0	ug/L		7/2/2019 21:22
2,4,6-Trichlorophenol	< 10.0	ug/L		7/2/2019 21:22
2,4-Dichlorophenol	< 10.0	ug/L		7/2/2019 21:22
2,4-Dimethylphenol	< 20.0	ug/L		7/2/2019 21:22
2,4-Dinitrophenol	< 20.0	ug/L		7/2/2019 21:22
2,4-Dinitrotoluene	< 10.0	ug/L		7/2/2019 21:22
2,6-Dinitrotoluene	< 10.0	ug/L		7/2/2019 21:22
2-Chloronaphthalene	< 10.0	ug/L		7/2/2019 21:22
2-Chlorophenol	< 10.0	ug/L		7/2/2019 21:22
2-Methylnapthalene	< 10.0	ug/L		7/2/2019 21:22
2-Methylphenol	< 10.0	ug/L		7/2/2019 21:22
2-Nitroaniline	< 20.0	ug/L		7/2/2019 21:22
2-Nitrophenol	< 10.0	ug/L		7/2/2019 21:22
3&4-Methylphenol	< 10.0	ug/L		7/2/2019 21:22
3,3'-Dichlorobenzidine	< 10.0	ug/L		7/2/2019 21:22
3-Nitroaniline	< 20.0	ug/L		7/2/2019 21:22
4,6-Dinitro-2-methylphenol	< 20.0	ug/L		7/2/2019 21:22
4-Bromophenyl phenyl ether	< 10.0	ug/L		7/2/2019 21:22
4-Chloro-3-methylphenol	< 10.0	ug/L		7/2/2019 21:22

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MW-103		
Lab Sample ID:	192983-03	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

4-Chloroaniline	< 10.0	ug/L	7/2/2019 21:22
4-Chlorophenyl phenyl ether	< 10.0	ug/L	7/2/2019 21:22
4-Nitroaniline	< 20.0	ug/L	7/2/2019 21:22
4-Nitrophenol	< 20.0	ug/L	7/2/2019 21:22
Acenaphthene	< 10.0	ug/L	7/2/2019 21:22
Acenaphthylene	< 10.0	ug/L	7/2/2019 21:22
Acetophenone	< 10.0	ug/L	7/2/2019 21:22
Anthracene	< 10.0	ug/L	7/2/2019 21:22
Atrazine	< 10.0	ug/L	7/2/2019 21:22
Benzaldehyde	< 10.0	ug/L	7/2/2019 21:22
Benzo (a) anthracene	< 10.0	ug/L	7/2/2019 21:22
Benzo (a) pyrene	< 10.0	ug/L	7/2/2019 21:22
Benzo (b) fluoranthene	< 10.0	ug/L	7/2/2019 21:22
Benzo (g,h,i) perylene	< 10.0	ug/L	7/2/2019 21:22
Benzo (k) fluoranthene	< 10.0	ug/L	7/2/2019 21:22
Bis (2-chloroethoxy) methane	< 10.0	ug/L	7/2/2019 21:22
Bis (2-chloroethyl) ether	< 10.0	ug/L	7/2/2019 21:22
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	7/2/2019 21:22
Butylbenzylphthalate	< 10.0	ug/L	7/2/2019 21:22
Caprolactam	< 10.0	ug/L	7/2/2019 21:22
Carbazole	< 10.0	ug/L	7/2/2019 21:22
Chrysene	< 10.0	ug/L	7/2/2019 21:22
Dibenz (a,h) anthracene	< 10.0	ug/L	7/2/2019 21:22
Dibenzofuran	< 10.0	ug/L	7/2/2019 21:22
Diethyl phthalate	< 10.0	ug/L	7/2/2019 21:22
Dimethyl phthalate	< 20.0	ug/L	7/2/2019 21:22
Di-n-butyl phthalate	< 10.0	ug/L	7/2/2019 21:22
Di-n-octylphthalate	< 10.0	ug/L	7/2/2019 21:22
Fluoranthene	< 10.0	ug/L	7/2/2019 21:22
Fluorene	< 10.0	ug/L	7/2/2019 21:22

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier: MW-103
Lab Sample ID: 192983-03 **Date Sampled:** 6/27/2019
Matrix: Groundwater **Date Received:** 6/27/2019

Hexachlorobenzene	< 10.0	ug/L	7/2/2019	21:22
Hexachlorobutadiene	< 10.0	ug/L	7/2/2019	21:22
Hexachlorocyclopentadiene	< 10.0	ug/L	7/2/2019	21:22
Hexachloroethane	< 10.0	ug/L	7/2/2019	21:22
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	7/2/2019	21:22
Isophorone	< 10.0	ug/L	7/2/2019	21:22
Naphthalene	< 10.0	ug/L	7/2/2019	21:22
Nitrobenzene	< 10.0	ug/L	7/2/2019	21:22
N-Nitroso-di-n-propylamine	< 10.0	ug/L	7/2/2019	21:22
N-Nitrosodiphenylamine	< 10.0	ug/L	7/2/2019	21:22
Pentachlorophenol	< 20.0	ug/L	7/2/2019	21:22
Phenanthrene	< 10.0	ug/L	7/2/2019	21:22
Phenol	< 10.0	ug/L	7/2/2019	21:22
Pyrene	< 10.0	ug/L	7/2/2019	21:22

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**78.2**	54.2 - 126		7/2/2019	21:22
2-Fluorobiphenyl	**48.7**	37.6 - 102		7/2/2019	21:22
2-Fluorophenol	**39.9**	15.1 - 106		7/2/2019	21:22
Nitrobenzene-d5	**63.8**	53.3 - 103		7/2/2019	21:22
Phenol-d5	**28.9**	10 - 108		7/2/2019	21:22
Terphenyl-d14	**80.1**	61.8 - 114		7/2/2019	21:22

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 7/1/2019
Data File: B38349.D

Report Prepared Monday, July 15, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MW-103		
Lab Sample ID:	192983-03	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		7/10/2019 16:30
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		7/10/2019 16:30
1,1,2-Trichloroethane	< 2.00	ug/L		7/10/2019 16:30
1,1-Dichloroethane	< 2.00	ug/L		7/10/2019 16:30
1,1-Dichloroethene	< 2.00	ug/L		7/10/2019 16:30
1,2,3-Trichlorobenzene	< 5.00	ug/L		7/10/2019 16:30
1,2,4-Trichlorobenzene	< 5.00	ug/L		7/10/2019 16:30
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		7/10/2019 16:30
1,2-Dibromoethane	< 2.00	ug/L		7/10/2019 16:30
1,2-Dichlorobenzene	< 2.00	ug/L		7/10/2019 16:30
1,2-Dichloroethane	< 2.00	ug/L		7/10/2019 16:30
1,2-Dichloropropane	< 2.00	ug/L		7/10/2019 16:30
1,3-Dichlorobenzene	< 2.00	ug/L		7/10/2019 16:30
1,4-Dichlorobenzene	< 2.00	ug/L		7/10/2019 16:30
1,4-Dioxane	< 20.0	ug/L		7/10/2019 16:30
2-Butanone	< 10.0	ug/L		7/10/2019 16:30
2-Hexanone	< 5.00	ug/L		7/10/2019 16:30
4-Methyl-2-pentanone	< 5.00	ug/L		7/10/2019 16:30
Acetone	< 10.0	ug/L		7/10/2019 16:30
Benzene	< 1.00	ug/L		7/10/2019 16:30
Bromochloromethane	< 5.00	ug/L		7/10/2019 16:30
Bromodichloromethane	< 2.00	ug/L		7/10/2019 16:30
Bromoform	< 5.00	ug/L		7/10/2019 16:30
Bromomethane	< 2.00	ug/L		7/10/2019 16:30
Carbon disulfide	< 2.00	ug/L		7/10/2019 16:30
Carbon Tetrachloride	< 2.00	ug/L		7/10/2019 16:30
Chlorobenzene	< 2.00	ug/L		7/10/2019 16:30

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier: MW-103
Lab Sample ID: 192983-03 **Date Sampled:** 6/27/2019
Matrix: Groundwater **Date Received:** 6/27/2019

Chloroethane	< 2.00	ug/L	7/10/2019	16:30
Chloroform	< 2.00	ug/L	7/10/2019	16:30
Chloromethane	< 2.00	ug/L	7/10/2019	16:30
cis-1,2-Dichloroethene	< 2.00	ug/L	7/10/2019	16:30
cis-1,3-Dichloropropene	< 2.00	ug/L	7/10/2019	16:30
Cyclohexane	< 10.0	ug/L	7/10/2019	16:30
Dibromochloromethane	< 2.00	ug/L	7/10/2019	16:30
Dichlorodifluoromethane	< 2.00	ug/L	7/10/2019	16:30
Ethylbenzene	< 2.00	ug/L	7/10/2019	16:30
Freon 113	< 2.00	ug/L	7/10/2019	16:30
Isopropylbenzene	< 2.00	ug/L	7/10/2019	16:30
m,p-Xylene	< 2.00	ug/L	7/10/2019	16:30
Methyl acetate	< 2.00	ug/L	7/10/2019	16:30
Methyl tert-butyl Ether	< 2.00	ug/L	7/10/2019	16:30
Methylcyclohexane	< 2.00	ug/L	7/10/2019	16:30
Methylene chloride	< 5.00	ug/L	7/10/2019	16:30
o-Xylene	< 2.00	ug/L	7/10/2019	16:30
Styrene	< 5.00	ug/L	7/10/2019	16:30
Tetrachloroethene	< 2.00	ug/L	7/10/2019	16:30
Toluene	< 2.00	ug/L	7/10/2019	16:30
trans-1,2-Dichloroethene	< 2.00	ug/L	7/10/2019	16:30
trans-1,3-Dichloropropene	< 2.00	ug/L	7/10/2019	16:30
Trichloroethene	< 2.00	ug/L	7/10/2019	16:30
Trichlorofluoromethane	< 2.00	ug/L	7/10/2019	16:30
Vinyl chloride	< 2.00	ug/L	7/10/2019	16:30

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier: MW-103
Lab Sample ID: 192983-03 **Date Sampled:** 6/27/2019
Matrix: Groundwater **Date Received:** 6/27/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**128**	73.4 - 131		7/10/2019	16:30
4-Bromofluorobenzene	**92.8**	57.2 - 129		7/10/2019	16:30
Pentafluorobenzene	**89.0**	87 - 112		7/10/2019	16:30
Toluene-D8	**95.9**	78.3 - 115		7/10/2019	16:30

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x62498.D

Report Prepared Monday, July 15, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MW-107		
Lab Sample ID:	192983-04	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		7/9/2019 10:05

Method Reference(s): EPA 7470A
Preparation Date: 7/8/2019
Data File: Hg190709A

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Monday, July 15, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MW-107		
Lab Sample ID:	192983-04	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	< 0.100	mg/L		7/1/2019 14:46
Antimony	< 0.0600	mg/L		7/1/2019 14:46
Arsenic	< 0.0100	mg/L		7/3/2019 16:12
Barium	**0.0906**	mg/L	J	7/1/2019 14:46
Beryllium	< 0.00500	mg/L		7/1/2019 14:46
Cadmium	< 0.00500	mg/L		7/1/2019 14:46
Calcium	**187**	mg/L		7/1/2019 14:46
Chromium	< 0.0100	mg/L		7/1/2019 14:46
Cobalt	< 0.0500	mg/L		7/1/2019 14:46
Copper	< 0.0400	mg/L		7/1/2019 14:46
Iron	**3.81**	mg/L		7/1/2019 14:46
Lead	< 0.0100	mg/L		7/1/2019 14:46
Magnesium	**29.3**	mg/L		7/1/2019 14:46
Manganese	**0.394**	mg/L		7/1/2019 14:46
Nickel	< 0.0400	mg/L		7/1/2019 14:46
Potassium	**6.43**	mg/L		7/1/2019 14:46
Selenium	< 0.0200	mg/L		7/8/2019 15:57
Silver	< 0.0100	mg/L		7/1/2019 14:46
Sodium	**54.5**	mg/L	M	7/1/2019 14:46
Thallium	< 0.0250	mg/L		7/1/2019 14:46
Vanadium	< 0.0250	mg/L		7/1/2019 14:46
Zinc	**0.0340**	mg/L	J	7/1/2019 14:46

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 6/28/2019
Data File: 19070C

Report Prepared Monday, July 15, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MW-107		
Lab Sample ID:	192983-04	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.6	ug/L		7/2/2019 21:50
1,2,4,5-Tetrachlorobenzene	< 10.6	ug/L		7/2/2019 21:50
1,2,4-Trichlorobenzene	< 10.6	ug/L		7/2/2019 21:50
1,2-Dichlorobenzene	< 10.6	ug/L		7/2/2019 21:50
1,3-Dichlorobenzene	< 10.6	ug/L		7/2/2019 21:50
1,4-Dichlorobenzene	< 10.6	ug/L		7/2/2019 21:50
2,2-Oxybis (1-chloropropane)	< 10.6	ug/L		7/2/2019 21:50
2,3,4,6-Tetrachlorophenol	< 10.6	ug/L		7/2/2019 21:50
2,4,5-Trichlorophenol	< 21.2	ug/L		7/2/2019 21:50
2,4,6-Trichlorophenol	< 10.6	ug/L		7/2/2019 21:50
2,4-Dichlorophenol	< 10.6	ug/L		7/2/2019 21:50
2,4-Dimethylphenol	< 21.2	ug/L		7/2/2019 21:50
2,4-Dinitrophenol	< 21.2	ug/L		7/2/2019 21:50
2,4-Dinitrotoluene	< 10.6	ug/L		7/2/2019 21:50
2,6-Dinitrotoluene	< 10.6	ug/L		7/2/2019 21:50
2-Chloronaphthalene	< 10.6	ug/L		7/2/2019 21:50
2-Chlorophenol	< 10.6	ug/L		7/2/2019 21:50
2-Methylnapthalene	< 10.6	ug/L		7/2/2019 21:50
2-Methylphenol	< 10.6	ug/L		7/2/2019 21:50
2-Nitroaniline	< 21.2	ug/L		7/2/2019 21:50
2-Nitrophenol	< 10.6	ug/L		7/2/2019 21:50
3&4-Methylphenol	< 10.6	ug/L		7/2/2019 21:50
3,3'-Dichlorobenzidine	< 10.6	ug/L		7/2/2019 21:50
3-Nitroaniline	< 21.2	ug/L		7/2/2019 21:50
4,6-Dinitro-2-methylphenol	< 21.2	ug/L		7/2/2019 21:50
4-Bromophenyl phenyl ether	< 10.6	ug/L		7/2/2019 21:50
4-Chloro-3-methylphenol	< 10.6	ug/L		7/2/2019 21:50

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MW-107		
Lab Sample ID:	192983-04	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

4-Chloroaniline	< 10.6	ug/L	7/2/2019	21:50
4-Chlorophenyl phenyl ether	< 10.6	ug/L	7/2/2019	21:50
4-Nitroaniline	< 21.2	ug/L	7/2/2019	21:50
4-Nitrophenol	< 21.2	ug/L	7/2/2019	21:50
Acenaphthene	< 10.6	ug/L	7/2/2019	21:50
Acenaphthylene	< 10.6	ug/L	7/2/2019	21:50
Acetophenone	< 10.6	ug/L	7/2/2019	21:50
Anthracene	< 10.6	ug/L	7/2/2019	21:50
Atrazine	< 10.6	ug/L	7/2/2019	21:50
Benzaldehyde	< 10.6	ug/L	7/2/2019	21:50
Benzo (a) anthracene	< 10.6	ug/L	7/2/2019	21:50
Benzo (a) pyrene	< 10.6	ug/L	7/2/2019	21:50
Benzo (b) fluoranthene	< 10.6	ug/L	7/2/2019	21:50
Benzo (g,h,i) perylene	< 10.6	ug/L	7/2/2019	21:50
Benzo (k) fluoranthene	< 10.6	ug/L	7/2/2019	21:50
Bis (2-chloroethoxy) methane	< 10.6	ug/L	7/2/2019	21:50
Bis (2-chloroethyl) ether	< 10.6	ug/L	7/2/2019	21:50
Bis (2-ethylhexyl) phthalate	< 10.6	ug/L	7/2/2019	21:50
Butylbenzylphthalate	< 10.6	ug/L	7/2/2019	21:50
Caprolactam	< 10.6	ug/L	7/2/2019	21:50
Carbazole	< 10.6	ug/L	7/2/2019	21:50
Chrysene	< 10.6	ug/L	7/2/2019	21:50
Dibenz (a,h) anthracene	< 10.6	ug/L	7/2/2019	21:50
Dibenzofuran	< 10.6	ug/L	7/2/2019	21:50
Diethyl phthalate	< 10.6	ug/L	7/2/2019	21:50
Dimethyl phthalate	< 21.2	ug/L	7/2/2019	21:50
Di-n-butyl phthalate	< 10.6	ug/L	7/2/2019	21:50
Di-n-octylphthalate	< 10.6	ug/L	7/2/2019	21:50
Fluoranthene	< 10.6	ug/L	7/2/2019	21:50
Fluorene	< 10.6	ug/L	7/2/2019	21:50

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier: MW-107
Lab Sample ID: 192983-04 **Date Sampled:** 6/27/2019
Matrix: Groundwater **Date Received:** 6/27/2019

Hexachlorobenzene	< 10.6	ug/L		7/2/2019 21:50
Hexachlorobutadiene	< 10.6	ug/L		7/2/2019 21:50
Hexachlorocyclopentadiene	< 10.6	ug/L		7/2/2019 21:50
Hexachloroethane	< 10.6	ug/L		7/2/2019 21:50
Indeno (1,2,3-cd) pyrene	< 10.6	ug/L		7/2/2019 21:50
Isophorone	< 10.6	ug/L		7/2/2019 21:50
Naphthalene	< 10.6	ug/L		7/2/2019 21:50
Nitrobenzene	< 10.6	ug/L		7/2/2019 21:50
N-Nitroso-di-n-propylamine	< 10.6	ug/L		7/2/2019 21:50
N-Nitrosodiphenylamine	< 10.6	ug/L		7/2/2019 21:50
Pentachlorophenol	< 21.2	ug/L		7/2/2019 21:50
Phenanthrene	< 10.6	ug/L		7/2/2019 21:50
Phenol	< 10.6	ug/L		7/2/2019 21:50
Pyrene	< 10.6	ug/L		7/2/2019 21:50

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
2,4,6-Tribromophenol	**82.4**	54.2 - 126		7/2/2019 21:50
2-Fluorobiphenyl	**62.9**	37.6 - 102		7/2/2019 21:50
2-Fluorophenol	**49.0**	15.1 - 106		7/2/2019 21:50
Nitrobenzene-d5	**78.2**	53.3 - 103		7/2/2019 21:50
Phenol-d5	**30.9**	10 - 108		7/2/2019 21:50
Terphenyl-d14	**86.8**	61.8 - 114		7/2/2019 21:50

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 7/1/2019
Data File: B38350.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MW-107		
Lab Sample ID:	192983-04	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		7/10/2019 15:22
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		7/10/2019 15:22
1,1,2-Trichloroethane	< 2.00	ug/L		7/10/2019 15:22
1,1-Dichloroethane	< 2.00	ug/L		7/10/2019 15:22
1,1-Dichloroethene	< 2.00	ug/L		7/10/2019 15:22
1,2,3-Trichlorobenzene	< 5.00	ug/L		7/10/2019 15:22
1,2,4-Trichlorobenzene	< 5.00	ug/L		7/10/2019 15:22
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		7/10/2019 15:22
1,2-Dibromoethane	< 2.00	ug/L		7/10/2019 15:22
1,2-Dichlorobenzene	< 2.00	ug/L		7/10/2019 15:22
1,2-Dichloroethane	< 2.00	ug/L		7/10/2019 15:22
1,2-Dichloropropane	< 2.00	ug/L		7/10/2019 15:22
1,3-Dichlorobenzene	< 2.00	ug/L		7/10/2019 15:22
1,4-Dichlorobenzene	< 2.00	ug/L		7/10/2019 15:22
1,4-Dioxane	< 20.0	ug/L		7/10/2019 15:22
2-Butanone	< 10.0	ug/L		7/10/2019 15:22
2-Hexanone	< 5.00	ug/L		7/10/2019 15:22
4-Methyl-2-pentanone	< 5.00	ug/L		7/10/2019 15:22
Acetone	< 10.0	ug/L		7/10/2019 15:22
Benzene	< 1.00	ug/L		7/10/2019 15:22
Bromochloromethane	< 5.00	ug/L		7/10/2019 15:22
Bromodichloromethane	< 2.00	ug/L		7/10/2019 15:22
Bromoform	< 5.00	ug/L		7/10/2019 15:22
Bromomethane	< 2.00	ug/L		7/10/2019 15:22
Carbon disulfide	< 2.00	ug/L		7/10/2019 15:22
Carbon Tetrachloride	< 2.00	ug/L		7/10/2019 15:22
Chlorobenzene	< 2.00	ug/L		7/10/2019 15:22

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier: MW-107
Lab Sample ID: 192983-04 **Date Sampled:** 6/27/2019
Matrix: Groundwater **Date Received:** 6/27/2019

Chloroethane	< 2.00	ug/L	7/10/2019	15:22
Chloroform	< 2.00	ug/L	7/10/2019	15:22
Chloromethane	< 2.00	ug/L	7/10/2019	15:22
cis-1,2-Dichloroethene	< 2.00	ug/L	7/10/2019	15:22
cis-1,3-Dichloropropene	< 2.00	ug/L	7/10/2019	15:22
Cyclohexane	< 10.0	ug/L	7/10/2019	15:22
Dibromochloromethane	< 2.00	ug/L	7/10/2019	15:22
Dichlorodifluoromethane	< 2.00	ug/L	7/10/2019	15:22
Ethylbenzene	< 2.00	ug/L	7/10/2019	15:22
Freon 113	< 2.00	ug/L	7/10/2019	15:22
Isopropylbenzene	< 2.00	ug/L	7/10/2019	15:22
m,p-Xylene	< 2.00	ug/L	7/10/2019	15:22
Methyl acetate	< 2.00	ug/L	7/10/2019	15:22
Methyl tert-butyl Ether	< 2.00	ug/L	7/10/2019	15:22
Methylcyclohexane	< 2.00	ug/L	7/10/2019	15:22
Methylene chloride	< 5.00	ug/L	7/10/2019	15:22
o-Xylene	< 2.00	ug/L	7/10/2019	15:22
Styrene	< 5.00	ug/L	7/10/2019	15:22
Tetrachloroethene	< 2.00	ug/L	7/10/2019	15:22
Toluene	< 2.00	ug/L	7/10/2019	15:22
trans-1,2-Dichloroethene	< 2.00	ug/L	7/10/2019	15:22
trans-1,3-Dichloropropene	< 2.00	ug/L	7/10/2019	15:22
Trichloroethene	< 2.00	ug/L	7/10/2019	15:22
Trichlorofluoromethane	< 2.00	ug/L	7/10/2019	15:22
Vinyl chloride	< 2.00	ug/L	7/10/2019	15:22

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier: MW-107
Lab Sample ID: 192983-04 **Date Sampled:** 6/27/2019
Matrix: Groundwater **Date Received:** 6/27/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**124**	73.4 - 131		7/10/2019	15:22
4-Bromofluorobenzene	**86.5**	57.2 - 129		7/10/2019	15:22
Pentafluorobenzene	**87.0**	87 - 112		7/10/2019	15:22
Toluene-D8	**94.2**	78.3 - 115		7/10/2019	15:22

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x62495.D

Report Prepared Monday, July 15, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MW-106		
Lab Sample ID:	192983-05	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		7/9/2019 10:15

Method Reference(s): EPA 7470A
Preparation Date: 7/8/2019
Data File: Hg190709A

Report Prepared Monday, July 15, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MW-106		
Lab Sample ID:	192983-05	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	< 0.100	mg/L		7/1/2019 15:17
Antimony	< 0.0600	mg/L		7/1/2019 15:17
Arsenic	< 0.0100	mg/L		7/1/2019 15:17
Barium	**0.0555**	mg/L	J	7/1/2019 15:17
Beryllium	< 0.00500	mg/L		7/1/2019 15:17
Cadmium	< 0.00500	mg/L		7/1/2019 15:17
Calcium	**52.7**	mg/L		7/1/2019 15:17
Chromium	< 0.0100	mg/L		7/1/2019 15:17
Cobalt	< 0.0500	mg/L		7/1/2019 15:17
Copper	< 0.0400	mg/L		7/1/2019 15:17
Iron	**0.448**	mg/L		7/1/2019 15:17
Lead	< 0.0100	mg/L		7/1/2019 15:17
Magnesium	**11.9**	mg/L		7/1/2019 15:17
Manganese	**0.0769**	mg/L		7/1/2019 15:17
Nickel	< 0.0400	mg/L		7/1/2019 15:17
Potassium	**2.35**	mg/L	J	7/1/2019 15:17
Selenium	< 0.0200	mg/L		7/8/2019 16:28
Silver	< 0.0100	mg/L		7/1/2019 15:17
Sodium	**34.1**	mg/L		7/1/2019 15:17
Thallium	< 0.0250	mg/L		7/1/2019 15:17
Vanadium	< 0.0250	mg/L		7/1/2019 15:17
Zinc	< 0.0600	mg/L		7/1/2019 15:17

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 6/28/2019
Data File: 19070C

Report Prepared Monday, July 15, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MW-106		
Lab Sample ID:	192983-05	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		7/2/2019 23:16
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		7/2/2019 23:16
1,2,4-Trichlorobenzene	< 10.0	ug/L		7/2/2019 23:16
1,2-Dichlorobenzene	< 10.0	ug/L		7/2/2019 23:16
1,3-Dichlorobenzene	< 10.0	ug/L		7/2/2019 23:16
1,4-Dichlorobenzene	< 10.0	ug/L		7/2/2019 23:16
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		7/2/2019 23:16
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		7/2/2019 23:16
2,4,5-Trichlorophenol	< 20.0	ug/L		7/2/2019 23:16
2,4,6-Trichlorophenol	< 10.0	ug/L		7/2/2019 23:16
2,4-Dichlorophenol	< 10.0	ug/L		7/2/2019 23:16
2,4-Dimethylphenol	< 20.0	ug/L		7/2/2019 23:16
2,4-Dinitrophenol	< 20.0	ug/L		7/2/2019 23:16
2,4-Dinitrotoluene	< 10.0	ug/L		7/2/2019 23:16
2,6-Dinitrotoluene	< 10.0	ug/L		7/2/2019 23:16
2-Chloronaphthalene	< 10.0	ug/L		7/2/2019 23:16
2-Chlorophenol	< 10.0	ug/L		7/2/2019 23:16
2-Methylnapthalene	< 10.0	ug/L		7/2/2019 23:16
2-Methylphenol	< 10.0	ug/L		7/2/2019 23:16
2-Nitroaniline	< 20.0	ug/L		7/2/2019 23:16
2-Nitrophenol	< 10.0	ug/L		7/2/2019 23:16
3&4-Methylphenol	< 10.0	ug/L		7/2/2019 23:16
3,3'-Dichlorobenzidine	< 10.0	ug/L		7/2/2019 23:16
3-Nitroaniline	< 20.0	ug/L		7/2/2019 23:16
4,6-Dinitro-2-methylphenol	< 20.0	ug/L		7/2/2019 23:16
4-Bromophenyl phenyl ether	< 10.0	ug/L		7/2/2019 23:16
4-Chloro-3-methylphenol	< 10.0	ug/L		7/2/2019 23:16

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MW-106		
Lab Sample ID:	192983-05	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

4-Chloroaniline	< 10.0	ug/L	7/2/2019	23:16
4-Chlorophenyl phenyl ether	< 10.0	ug/L	7/2/2019	23:16
4-Nitroaniline	< 20.0	ug/L	7/2/2019	23:16
4-Nitrophenol	< 20.0	ug/L	7/2/2019	23:16
Acenaphthene	< 10.0	ug/L	7/2/2019	23:16
Acenaphthylene	< 10.0	ug/L	7/2/2019	23:16
Acetophenone	< 10.0	ug/L	7/2/2019	23:16
Anthracene	< 10.0	ug/L	7/2/2019	23:16
Atrazine	< 10.0	ug/L	7/2/2019	23:16
Benzaldehyde	< 10.0	ug/L	7/2/2019	23:16
Benzo (a) anthracene	< 10.0	ug/L	7/2/2019	23:16
Benzo (a) pyrene	< 10.0	ug/L	7/2/2019	23:16
Benzo (b) fluoranthene	< 10.0	ug/L	7/2/2019	23:16
Benzo (g,h,i) perylene	< 10.0	ug/L	7/2/2019	23:16
Benzo (k) fluoranthene	< 10.0	ug/L	7/2/2019	23:16
Bis (2-chloroethoxy) methane	< 10.0	ug/L	7/2/2019	23:16
Bis (2-chloroethyl) ether	< 10.0	ug/L	7/2/2019	23:16
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	7/2/2019	23:16
Butylbenzylphthalate	< 10.0	ug/L	7/2/2019	23:16
Caprolactam	< 10.0	ug/L	7/2/2019	23:16
Carbazole	< 10.0	ug/L	7/2/2019	23:16
Chrysene	< 10.0	ug/L	7/2/2019	23:16
Dibenz (a,h) anthracene	< 10.0	ug/L	7/2/2019	23:16
Dibenzofuran	< 10.0	ug/L	7/2/2019	23:16
Diethyl phthalate	< 10.0	ug/L	7/2/2019	23:16
Dimethyl phthalate	< 20.0	ug/L	7/2/2019	23:16
Di-n-butyl phthalate	< 10.0	ug/L	7/2/2019	23:16
Di-n-octylphthalate	< 10.0	ug/L	7/2/2019	23:16
Fluoranthene	< 10.0	ug/L	7/2/2019	23:16
Fluorene	< 10.0	ug/L	7/2/2019	23:16

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier: MW-106
Lab Sample ID: 192983-05 **Date Sampled:** 6/27/2019
Matrix: Groundwater **Date Received:** 6/27/2019

Hexachlorobenzene	< 10.0	ug/L	7/2/2019	23:16
Hexachlorobutadiene	< 10.0	ug/L	7/2/2019	23:16
Hexachlorocyclopentadiene	< 10.0	ug/L	7/2/2019	23:16
Hexachloroethane	< 10.0	ug/L	7/2/2019	23:16
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	7/2/2019	23:16
Isophorone	< 10.0	ug/L	7/2/2019	23:16
Naphthalene	< 10.0	ug/L	7/2/2019	23:16
Nitrobenzene	< 10.0	ug/L	7/2/2019	23:16
N-Nitroso-di-n-propylamine	< 10.0	ug/L	7/2/2019	23:16
N-Nitrosodiphenylamine	< 10.0	ug/L	7/2/2019	23:16
Pentachlorophenol	< 20.0	ug/L	7/2/2019	23:16
Phenanthrene	< 10.0	ug/L	7/2/2019	23:16
Phenol	< 10.0	ug/L	7/2/2019	23:16
Pyrene	< 10.0	ug/L	7/2/2019	23:16

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**85.1**	54.2 - 126		7/2/2019	23:16
2-Fluorobiphenyl	**49.0**	37.6 - 102		7/2/2019	23:16
2-Fluorophenol	**38.2**	15.1 - 106		7/2/2019	23:16
Nitrobenzene-d5	**73.6**	53.3 - 103		7/2/2019	23:16
Phenol-d5	**32.4**	10 - 108		7/2/2019	23:16
Terphenyl-d14	**87.5**	61.8 - 114		7/2/2019	23:16

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 7/1/2019
Data File: B38353.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MW-106		
Lab Sample ID:	192983-05	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		7/10/2019 16:53
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		7/10/2019 16:53
1,1,2-Trichloroethane	< 2.00	ug/L		7/10/2019 16:53
1,1-Dichloroethane	< 2.00	ug/L		7/10/2019 16:53
1,1-Dichloroethene	< 2.00	ug/L		7/10/2019 16:53
1,2,3-Trichlorobenzene	< 5.00	ug/L		7/10/2019 16:53
1,2,4-Trichlorobenzene	< 5.00	ug/L		7/10/2019 16:53
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		7/10/2019 16:53
1,2-Dibromoethane	< 2.00	ug/L		7/10/2019 16:53
1,2-Dichlorobenzene	< 2.00	ug/L		7/10/2019 16:53
1,2-Dichloroethane	< 2.00	ug/L		7/10/2019 16:53
1,2-Dichloropropane	< 2.00	ug/L		7/10/2019 16:53
1,3-Dichlorobenzene	< 2.00	ug/L		7/10/2019 16:53
1,4-Dichlorobenzene	< 2.00	ug/L		7/10/2019 16:53
1,4-Dioxane	< 20.0	ug/L		7/10/2019 16:53
2-Butanone	< 10.0	ug/L		7/10/2019 16:53
2-Hexanone	< 5.00	ug/L		7/10/2019 16:53
4-Methyl-2-pentanone	< 5.00	ug/L		7/10/2019 16:53
Acetone	< 10.0	ug/L		7/10/2019 16:53
Benzene	< 1.00	ug/L		7/10/2019 16:53
Bromochloromethane	< 5.00	ug/L		7/10/2019 16:53
Bromodichloromethane	< 2.00	ug/L		7/10/2019 16:53
Bromoform	< 5.00	ug/L		7/10/2019 16:53
Bromomethane	< 2.00	ug/L		7/10/2019 16:53
Carbon disulfide	< 2.00	ug/L		7/10/2019 16:53
Carbon Tetrachloride	< 2.00	ug/L		7/10/2019 16:53
Chlorobenzene	**1.88**	ug/L	J	7/10/2019 16:53

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier: MW-106
Lab Sample ID: 192983-05 **Date Sampled:** 6/27/2019
Matrix: Groundwater **Date Received:** 6/27/2019

Chloroethane	< 2.00	ug/L	7/10/2019	16:53
Chloroform	< 2.00	ug/L	7/10/2019	16:53
Chloromethane	< 2.00	ug/L	7/10/2019	16:53
cis-1,2-Dichloroethene	< 2.00	ug/L	7/10/2019	16:53
cis-1,3-Dichloropropene	< 2.00	ug/L	7/10/2019	16:53
Cyclohexane	< 10.0	ug/L	7/10/2019	16:53
Dibromochloromethane	< 2.00	ug/L	7/10/2019	16:53
Dichlorodifluoromethane	< 2.00	ug/L	7/10/2019	16:53
Ethylbenzene	< 2.00	ug/L	7/10/2019	16:53
Freon 113	< 2.00	ug/L	7/10/2019	16:53
Isopropylbenzene	< 2.00	ug/L	7/10/2019	16:53
m,p-Xylene	< 2.00	ug/L	7/10/2019	16:53
Methyl acetate	< 2.00	ug/L	7/10/2019	16:53
Methyl tert-butyl Ether	< 2.00	ug/L	7/10/2019	16:53
Methylcyclohexane	< 2.00	ug/L	7/10/2019	16:53
Methylene chloride	< 5.00	ug/L	7/10/2019	16:53
o-Xylene	< 2.00	ug/L	7/10/2019	16:53
Styrene	< 5.00	ug/L	7/10/2019	16:53
Tetrachloroethene	< 2.00	ug/L	7/10/2019	16:53
Toluene	< 2.00	ug/L	7/10/2019	16:53
trans-1,2-Dichloroethene	< 2.00	ug/L	7/10/2019	16:53
trans-1,3-Dichloropropene	< 2.00	ug/L	7/10/2019	16:53
Trichloroethene	< 2.00	ug/L	7/10/2019	16:53
Trichlorofluoromethane	< 2.00	ug/L	7/10/2019	16:53
Vinyl chloride	< 2.00	ug/L	7/10/2019	16:53

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier: MW-106
Lab Sample ID: 192983-05 **Date Sampled:** 6/27/2019
Matrix: Groundwater **Date Received:** 6/27/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**127**	73.4 - 131		7/10/2019	16:53
4-Bromofluorobenzene	**91.1**	57.2 - 129		7/10/2019	16:53
Pentafluorobenzene	**87.0**	87 - 112		7/10/2019	16:53
Toluene-D8	**95.2**	78.3 - 115		7/10/2019	16:53

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x62499.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Monday, July 15, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MW-102		
Lab Sample ID:	192983-06	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		7/9/2019 10:17

Method Reference(s): EPA 7470A
Preparation Date: 7/8/2019
Data File: Hg190709A

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Monday, July 15, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MW-102		
Lab Sample ID:	192983-06	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**0.454**	mg/L		7/1/2019 15:21
Antimony	< 0.0600	mg/L		7/1/2019 15:21
Arsenic	**0.0135**	mg/L		7/3/2019 16:52
Barium	**0.925**	mg/L		7/1/2019 15:21
Beryllium	< 0.00500	mg/L		7/1/2019 15:21
Cadmium	< 0.00500	mg/L		7/1/2019 15:21
Calcium	**585**	mg/L		7/3/2019 16:47
Chromium	< 0.0100	mg/L		7/1/2019 15:21
Cobalt	< 0.0500	mg/L		7/1/2019 15:21
Copper	< 0.0400	mg/L		7/1/2019 15:21
Iron	**46.9**	mg/L		7/1/2019 15:21
Lead	< 0.0100	mg/L		7/1/2019 15:21
Magnesium	**198**	mg/L		7/1/2019 15:21
Manganese	**2.07**	mg/L		7/1/2019 15:21
Nickel	< 0.0400	mg/L		7/1/2019 15:21
Potassium	**52.6**	mg/L		7/1/2019 15:21
Selenium	**0.0188**	mg/L	J	7/8/2019 16:32
Silver	< 0.0100	mg/L		7/1/2019 15:21
Sodium	**1660**	mg/L	E	7/3/2019 16:47
Thallium	**0.0218**	mg/L	J	7/1/2019 15:21
Vanadium	< 0.0250	mg/L		7/1/2019 15:21
Zinc	**0.0610**	mg/L		7/1/2019 15:21

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 6/28/2019
Data File: 19070C

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MW-102		
Lab Sample ID:	192983-06	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		7/2/2019 23:45
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		7/2/2019 23:45
1,2,4-Trichlorobenzene	< 10.0	ug/L		7/2/2019 23:45
1,2-Dichlorobenzene	< 10.0	ug/L		7/2/2019 23:45
1,3-Dichlorobenzene	< 10.0	ug/L		7/2/2019 23:45
1,4-Dichlorobenzene	< 10.0	ug/L		7/2/2019 23:45
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		7/2/2019 23:45
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		7/2/2019 23:45
2,4,5-Trichlorophenol	< 20.0	ug/L		7/2/2019 23:45
2,4,6-Trichlorophenol	< 10.0	ug/L		7/2/2019 23:45
2,4-Dichlorophenol	< 10.0	ug/L		7/2/2019 23:45
2,4-Dimethylphenol	< 20.0	ug/L		7/2/2019 23:45
2,4-Dinitrophenol	< 20.0	ug/L		7/2/2019 23:45
2,4-Dinitrotoluene	< 10.0	ug/L		7/2/2019 23:45
2,6-Dinitrotoluene	< 10.0	ug/L		7/2/2019 23:45
2-Chloronaphthalene	< 10.0	ug/L		7/2/2019 23:45
2-Chlorophenol	< 10.0	ug/L		7/2/2019 23:45
2-Methylnapthalene	< 10.0	ug/L		7/2/2019 23:45
2-Methylphenol	< 10.0	ug/L		7/2/2019 23:45
2-Nitroaniline	< 20.0	ug/L		7/2/2019 23:45
2-Nitrophenol	< 10.0	ug/L		7/2/2019 23:45
3&4-Methylphenol	< 10.0	ug/L		7/2/2019 23:45
3,3'-Dichlorobenzidine	< 10.0	ug/L		7/2/2019 23:45
3-Nitroaniline	< 20.0	ug/L		7/2/2019 23:45
4,6-Dinitro-2-methylphenol	< 20.0	ug/L		7/2/2019 23:45
4-Bromophenyl phenyl ether	< 10.0	ug/L		7/2/2019 23:45
4-Chloro-3-methylphenol	< 10.0	ug/L		7/2/2019 23:45

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MW-102		
Lab Sample ID:	192983-06	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

4-Chloroaniline	< 10.0	ug/L	7/2/2019	23:45
4-Chlorophenyl phenyl ether	< 10.0	ug/L	7/2/2019	23:45
4-Nitroaniline	< 20.0	ug/L	7/2/2019	23:45
4-Nitrophenol	< 20.0	ug/L	7/2/2019	23:45
Acenaphthene	< 10.0	ug/L	7/2/2019	23:45
Acenaphthylene	< 10.0	ug/L	7/2/2019	23:45
Acetophenone	< 10.0	ug/L	7/2/2019	23:45
Anthracene	< 10.0	ug/L	7/2/2019	23:45
Atrazine	< 10.0	ug/L	7/2/2019	23:45
Benzaldehyde	< 10.0	ug/L	7/2/2019	23:45
Benzo (a) anthracene	< 10.0	ug/L	7/2/2019	23:45
Benzo (a) pyrene	< 10.0	ug/L	7/2/2019	23:45
Benzo (b) fluoranthene	< 10.0	ug/L	7/2/2019	23:45
Benzo (g,h,i) perylene	< 10.0	ug/L	7/2/2019	23:45
Benzo (k) fluoranthene	< 10.0	ug/L	7/2/2019	23:45
Bis (2-chloroethoxy) methane	< 10.0	ug/L	7/2/2019	23:45
Bis (2-chloroethyl) ether	< 10.0	ug/L	7/2/2019	23:45
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	7/2/2019	23:45
Butylbenzylphthalate	< 10.0	ug/L	7/2/2019	23:45
Caprolactam	< 10.0	ug/L	7/2/2019	23:45
Carbazole	< 10.0	ug/L	7/2/2019	23:45
Chrysene	< 10.0	ug/L	7/2/2019	23:45
Dibenz (a,h) anthracene	< 10.0	ug/L	7/2/2019	23:45
Dibenzofuran	< 10.0	ug/L	7/2/2019	23:45
Diethyl phthalate	< 10.0	ug/L	7/2/2019	23:45
Dimethyl phthalate	< 20.0	ug/L	7/2/2019	23:45
Di-n-butyl phthalate	< 10.0	ug/L	7/2/2019	23:45
Di-n-octylphthalate	< 10.0	ug/L	7/2/2019	23:45
Fluoranthene	< 10.0	ug/L	7/2/2019	23:45
Fluorene	< 10.0	ug/L	7/2/2019	23:45

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier: MW-102
Lab Sample ID: 192983-06 **Date Sampled:** 6/27/2019
Matrix: Groundwater **Date Received:** 6/27/2019

Hexachlorobenzene	< 10.0	ug/L	7/2/2019	23:45
Hexachlorobutadiene	< 10.0	ug/L	7/2/2019	23:45
Hexachlorocyclopentadiene	< 10.0	ug/L	7/2/2019	23:45
Hexachloroethane	< 10.0	ug/L	7/2/2019	23:45
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	7/2/2019	23:45
Isophorone	< 10.0	ug/L	7/2/2019	23:45
Naphthalene	< 10.0	ug/L	7/2/2019	23:45
Nitrobenzene	< 10.0	ug/L	7/2/2019	23:45
N-Nitroso-di-n-propylamine	< 10.0	ug/L	7/2/2019	23:45
N-Nitrosodiphenylamine	< 10.0	ug/L	7/2/2019	23:45
Pentachlorophenol	< 20.0	ug/L	7/2/2019	23:45
Phenanthrene	< 10.0	ug/L	7/2/2019	23:45
Phenol	< 10.0	ug/L	7/2/2019	23:45
Pyrene	< 10.0	ug/L	7/2/2019	23:45

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**79.7**	54.2 - 126		7/2/2019	23:45
2-Fluorobiphenyl	**47.1**	37.6 - 102		7/2/2019	23:45
2-Fluorophenol	**39.6**	15.1 - 106		7/2/2019	23:45
Nitrobenzene-d5	**75.2**	53.3 - 103		7/2/2019	23:45
Phenol-d5	**31.1**	10 - 108		7/2/2019	23:45
Terphenyl-d14	**84.3**	61.8 - 114		7/2/2019	23:45

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 7/1/2019
Data File: B38354.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MW-102		
Lab Sample ID:	192983-06	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		7/10/2019 17:16
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		7/10/2019 17:16
1,1,2-Trichloroethane	< 2.00	ug/L		7/10/2019 17:16
1,1-Dichloroethane	< 2.00	ug/L		7/10/2019 17:16
1,1-Dichloroethene	< 2.00	ug/L		7/10/2019 17:16
1,2,3-Trichlorobenzene	< 5.00	ug/L		7/10/2019 17:16
1,2,4-Trichlorobenzene	< 5.00	ug/L		7/10/2019 17:16
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		7/10/2019 17:16
1,2-Dibromoethane	< 2.00	ug/L		7/10/2019 17:16
1,2-Dichlorobenzene	< 2.00	ug/L		7/10/2019 17:16
1,2-Dichloroethane	< 2.00	ug/L		7/10/2019 17:16
1,2-Dichloropropane	< 2.00	ug/L		7/10/2019 17:16
1,3-Dichlorobenzene	< 2.00	ug/L		7/10/2019 17:16
1,4-Dichlorobenzene	< 2.00	ug/L		7/10/2019 17:16
1,4-Dioxane	< 20.0	ug/L		7/10/2019 17:16
2-Butanone	< 10.0	ug/L		7/10/2019 17:16
2-Hexanone	< 5.00	ug/L		7/10/2019 17:16
4-Methyl-2-pentanone	< 5.00	ug/L		7/10/2019 17:16
Acetone	< 10.0	ug/L		7/10/2019 17:16
Benzene	< 1.00	ug/L		7/10/2019 17:16
Bromochloromethane	< 5.00	ug/L		7/10/2019 17:16
Bromodichloromethane	< 2.00	ug/L		7/10/2019 17:16
Bromoform	< 5.00	ug/L		7/10/2019 17:16
Bromomethane	< 2.00	ug/L		7/10/2019 17:16
Carbon disulfide	< 2.00	ug/L		7/10/2019 17:16
Carbon Tetrachloride	< 2.00	ug/L		7/10/2019 17:16
Chlorobenzene	< 2.00	ug/L		7/10/2019 17:16

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MW-102		
Lab Sample ID:	192983-06	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

Chloroethane	< 2.00	ug/L	7/10/2019	17:16
Chloroform	< 2.00	ug/L	7/10/2019	17:16
Chloromethane	< 2.00	ug/L	7/10/2019	17:16
cis-1,2-Dichloroethene	< 2.00	ug/L	7/10/2019	17:16
cis-1,3-Dichloropropene	< 2.00	ug/L	7/10/2019	17:16
Cyclohexane	< 10.0	ug/L	7/10/2019	17:16
Dibromochloromethane	< 2.00	ug/L	7/10/2019	17:16
Dichlorodifluoromethane	< 2.00	ug/L	7/10/2019	17:16
Ethylbenzene	< 2.00	ug/L	7/10/2019	17:16
Freon 113	< 2.00	ug/L	7/10/2019	17:16
Isopropylbenzene	< 2.00	ug/L	7/10/2019	17:16
m,p-Xylene	< 2.00	ug/L	7/10/2019	17:16
Methyl acetate	< 2.00	ug/L	7/10/2019	17:16
Methyl tert-butyl Ether	< 2.00	ug/L	7/10/2019	17:16
Methylcyclohexane	< 2.00	ug/L	7/10/2019	17:16
Methylene chloride	< 5.00	ug/L	7/10/2019	17:16
o-Xylene	< 2.00	ug/L	7/10/2019	17:16
Styrene	< 5.00	ug/L	7/10/2019	17:16
Tetrachloroethene	< 2.00	ug/L	7/10/2019	17:16
Toluene	< 2.00	ug/L	7/10/2019	17:16
trans-1,2-Dichloroethene	< 2.00	ug/L	7/10/2019	17:16
trans-1,3-Dichloropropene	< 2.00	ug/L	7/10/2019	17:16
Trichloroethene	< 2.00	ug/L	7/10/2019	17:16
Trichlorofluoromethane	< 2.00	ug/L	7/10/2019	17:16
Vinyl chloride	< 2.00	ug/L	7/10/2019	17:16

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier: MW-102
Lab Sample ID: 192983-06 **Date Sampled:** 6/27/2019
Matrix: Groundwater **Date Received:** 6/27/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**143**	73.4 - 131	*	7/10/2019	17:16
4-Bromofluorobenzene	**95.5**	57.2 - 129		7/10/2019	17:16
Pentafluorobenzene	**81.7**	87 - 112	*	7/10/2019	17:16
Toluene-D8	**101**	78.3 - 115		7/10/2019	17:16

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x62500.D

Report Prepared Monday, July 15, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MWR-102		
Lab Sample ID:	192983-07	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		7/9/2019 10:19

Method Reference(s): EPA 7470A
Preparation Date: 7/8/2019
Data File: Hg190709A

Report Prepared Monday, July 15, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MWR-102		
Lab Sample ID:	192983-07	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	< 0.100	mg/L		7/1/2019 15:26
Antimony	< 0.0600	mg/L		7/1/2019 15:26
Arsenic	< 0.0100	mg/L		7/3/2019 16:56
Barium	**0.0733**	mg/L	J	7/1/2019 15:26
Beryllium	< 0.00500	mg/L		7/1/2019 15:26
Cadmium	< 0.00500	mg/L		7/1/2019 15:26
Calcium	**102**	mg/L		7/1/2019 15:26
Chromium	< 0.0100	mg/L		7/1/2019 15:26
Cobalt	< 0.0500	mg/L		7/1/2019 15:26
Copper	< 0.0400	mg/L		7/1/2019 15:26
Iron	< 0.100	mg/L		7/1/2019 15:26
Lead	< 0.0100	mg/L		7/1/2019 15:26
Magnesium	**67.3**	mg/L		7/1/2019 15:26
Manganese	**0.129**	mg/L		7/1/2019 15:26
Nickel	< 0.0400	mg/L		7/1/2019 15:26
Potassium	**11.0**	mg/L		7/1/2019 15:26
Selenium	< 0.0200	mg/L		7/8/2019 16:37
Silver	< 0.0100	mg/L		7/1/2019 15:26
Sodium	**308**	mg/L		7/1/2019 15:26
Thallium	< 0.0250	mg/L		7/1/2019 15:26
Vanadium	< 0.0250	mg/L		7/1/2019 15:26
Zinc	< 0.0600	mg/L		7/1/2019 15:26

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 6/28/2019
Data File: 19070C

Report Prepared Monday, July 15, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MWR-102		
Lab Sample ID:	192983-07	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		7/3/2019 00:14
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		7/3/2019 00:14
1,2,4-Trichlorobenzene	< 10.0	ug/L		7/3/2019 00:14
1,2-Dichlorobenzene	< 10.0	ug/L		7/3/2019 00:14
1,3-Dichlorobenzene	< 10.0	ug/L		7/3/2019 00:14
1,4-Dichlorobenzene	< 10.0	ug/L		7/3/2019 00:14
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		7/3/2019 00:14
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		7/3/2019 00:14
2,4,5-Trichlorophenol	< 20.0	ug/L		7/3/2019 00:14
2,4,6-Trichlorophenol	< 10.0	ug/L		7/3/2019 00:14
2,4-Dichlorophenol	< 10.0	ug/L		7/3/2019 00:14
2,4-Dimethylphenol	< 20.0	ug/L		7/3/2019 00:14
2,4-Dinitrophenol	< 20.0	ug/L		7/3/2019 00:14
2,4-Dinitrotoluene	< 10.0	ug/L		7/3/2019 00:14
2,6-Dinitrotoluene	< 10.0	ug/L		7/3/2019 00:14
2-Chloronaphthalene	< 10.0	ug/L		7/3/2019 00:14
2-Chlorophenol	< 10.0	ug/L		7/3/2019 00:14
2-Methylnapthalene	< 10.0	ug/L		7/3/2019 00:14
2-Methylphenol	< 10.0	ug/L		7/3/2019 00:14
2-Nitroaniline	< 20.0	ug/L		7/3/2019 00:14
2-Nitrophenol	< 10.0	ug/L		7/3/2019 00:14
3&4-Methylphenol	< 10.0	ug/L		7/3/2019 00:14
3,3'-Dichlorobenzidine	< 10.0	ug/L		7/3/2019 00:14
3-Nitroaniline	< 20.0	ug/L		7/3/2019 00:14
4,6-Dinitro-2-methylphenol	< 20.0	ug/L		7/3/2019 00:14
4-Bromophenyl phenyl ether	< 10.0	ug/L		7/3/2019 00:14
4-Chloro-3-methylphenol	< 10.0	ug/L		7/3/2019 00:14

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MWR-102		
Lab Sample ID:	192983-07	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

4-Chloroaniline	< 10.0	ug/L	7/3/2019	00:14
4-Chlorophenyl phenyl ether	< 10.0	ug/L	7/3/2019	00:14
4-Nitroaniline	< 20.0	ug/L	7/3/2019	00:14
4-Nitrophenol	< 20.0	ug/L	7/3/2019	00:14
Acenaphthene	< 10.0	ug/L	7/3/2019	00:14
Acenaphthylene	< 10.0	ug/L	7/3/2019	00:14
Acetophenone	< 10.0	ug/L	7/3/2019	00:14
Anthracene	< 10.0	ug/L	7/3/2019	00:14
Atrazine	< 10.0	ug/L	7/3/2019	00:14
Benzaldehyde	< 10.0	ug/L	7/3/2019	00:14
Benzo (a) anthracene	< 10.0	ug/L	7/3/2019	00:14
Benzo (a) pyrene	< 10.0	ug/L	7/3/2019	00:14
Benzo (b) fluoranthene	< 10.0	ug/L	7/3/2019	00:14
Benzo (g,h,i) perylene	< 10.0	ug/L	7/3/2019	00:14
Benzo (k) fluoranthene	< 10.0	ug/L	7/3/2019	00:14
Bis (2-chloroethoxy) methane	< 10.0	ug/L	7/3/2019	00:14
Bis (2-chloroethyl) ether	< 10.0	ug/L	7/3/2019	00:14
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	7/3/2019	00:14
Butylbenzylphthalate	< 10.0	ug/L	7/3/2019	00:14
Caprolactam	< 10.0	ug/L	7/3/2019	00:14
Carbazole	< 10.0	ug/L	7/3/2019	00:14
Chrysene	< 10.0	ug/L	7/3/2019	00:14
Dibenz (a,h) anthracene	< 10.0	ug/L	7/3/2019	00:14
Dibenzofuran	< 10.0	ug/L	7/3/2019	00:14
Diethyl phthalate	< 10.0	ug/L	7/3/2019	00:14
Dimethyl phthalate	< 20.0	ug/L	7/3/2019	00:14
Di-n-butyl phthalate	< 10.0	ug/L	7/3/2019	00:14
Di-n-octylphthalate	< 10.0	ug/L	7/3/2019	00:14
Fluoranthene	< 10.0	ug/L	7/3/2019	00:14
Fluorene	< 10.0	ug/L	7/3/2019	00:14

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier: MWR-102
Lab Sample ID: 192983-07 **Date Sampled:** 6/27/2019
Matrix: Groundwater **Date Received:** 6/27/2019

Hexachlorobenzene	< 10.0	ug/L	7/3/2019	00:14
Hexachlorobutadiene	< 10.0	ug/L	7/3/2019	00:14
Hexachlorocyclopentadiene	< 10.0	ug/L	7/3/2019	00:14
Hexachloroethane	< 10.0	ug/L	7/3/2019	00:14
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	7/3/2019	00:14
Isophorone	< 10.0	ug/L	7/3/2019	00:14
Naphthalene	< 10.0	ug/L	7/3/2019	00:14
Nitrobenzene	< 10.0	ug/L	7/3/2019	00:14
N-Nitroso-di-n-propylamine	< 10.0	ug/L	7/3/2019	00:14
N-Nitrosodiphenylamine	< 10.0	ug/L	7/3/2019	00:14
Pentachlorophenol	< 20.0	ug/L	7/3/2019	00:14
Phenanthrene	< 10.0	ug/L	7/3/2019	00:14
Phenol	< 10.0	ug/L	7/3/2019	00:14
Pyrene	< 10.0	ug/L	7/3/2019	00:14

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**87.3**	54.2 - 126		7/3/2019	00:14
2-Fluorobiphenyl	**44.7**	37.6 - 102		7/3/2019	00:14
2-Fluorophenol	**49.4**	15.1 - 106		7/3/2019	00:14
Nitrobenzene-d5	**79.3**	53.3 - 103		7/3/2019	00:14
Phenol-d5	**36.1**	10 - 108		7/3/2019	00:14
Terphenyl-d14	**95.9**	61.8 - 114		7/3/2019	00:14

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 7/1/2019
Data File: B38355.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MWR-102		
Lab Sample ID:	192983-07	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		7/10/2019 17:38
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		7/10/2019 17:38
1,1,2-Trichloroethane	< 2.00	ug/L		7/10/2019 17:38
1,1-Dichloroethane	< 2.00	ug/L		7/10/2019 17:38
1,1-Dichloroethene	< 2.00	ug/L		7/10/2019 17:38
1,2,3-Trichlorobenzene	< 5.00	ug/L		7/10/2019 17:38
1,2,4-Trichlorobenzene	< 5.00	ug/L		7/10/2019 17:38
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		7/10/2019 17:38
1,2-Dibromoethane	< 2.00	ug/L		7/10/2019 17:38
1,2-Dichlorobenzene	< 2.00	ug/L		7/10/2019 17:38
1,2-Dichloroethane	< 2.00	ug/L		7/10/2019 17:38
1,2-Dichloropropane	< 2.00	ug/L		7/10/2019 17:38
1,3-Dichlorobenzene	< 2.00	ug/L		7/10/2019 17:38
1,4-Dichlorobenzene	< 2.00	ug/L		7/10/2019 17:38
1,4-Dioxane	< 20.0	ug/L		7/10/2019 17:38
2-Butanone	< 10.0	ug/L		7/10/2019 17:38
2-Hexanone	< 5.00	ug/L		7/10/2019 17:38
4-Methyl-2-pentanone	< 5.00	ug/L		7/10/2019 17:38
Acetone	< 10.0	ug/L		7/10/2019 17:38
Benzene	< 1.00	ug/L		7/10/2019 17:38
Bromochloromethane	< 5.00	ug/L		7/10/2019 17:38
Bromodichloromethane	< 2.00	ug/L		7/10/2019 17:38
Bromoform	< 5.00	ug/L		7/10/2019 17:38
Bromomethane	< 2.00	ug/L		7/10/2019 17:38
Carbon disulfide	< 2.00	ug/L		7/10/2019 17:38
Carbon Tetrachloride	< 2.00	ug/L		7/10/2019 17:38
Chlorobenzene	< 2.00	ug/L		7/10/2019 17:38

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MWR-102		
Lab Sample ID:	192983-07	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

Chloroethane	< 2.00	ug/L		7/10/2019	17:38
Chloroform	< 2.00	ug/L		7/10/2019	17:38
Chloromethane	< 2.00	ug/L		7/10/2019	17:38
cis-1,2-Dichloroethene	**1.01**	ug/L	J	7/10/2019	17:38
cis-1,3-Dichloropropene	< 2.00	ug/L		7/10/2019	17:38
Cyclohexane	< 10.0	ug/L		7/10/2019	17:38
Dibromochloromethane	< 2.00	ug/L		7/10/2019	17:38
Dichlorodifluoromethane	< 2.00	ug/L		7/10/2019	17:38
Ethylbenzene	< 2.00	ug/L		7/10/2019	17:38
Freon 113	< 2.00	ug/L		7/10/2019	17:38
Isopropylbenzene	< 2.00	ug/L		7/10/2019	17:38
m,p-Xylene	< 2.00	ug/L		7/10/2019	17:38
Methyl acetate	< 2.00	ug/L		7/10/2019	17:38
Methyl tert-butyl Ether	**13.7**	ug/L		7/10/2019	17:38
Methylcyclohexane	< 2.00	ug/L		7/10/2019	17:38
Methylene chloride	< 5.00	ug/L		7/10/2019	17:38
o-Xylene	< 2.00	ug/L		7/10/2019	17:38
Styrene	< 5.00	ug/L		7/10/2019	17:38
Tetrachloroethene	< 2.00	ug/L		7/10/2019	17:38
Toluene	< 2.00	ug/L		7/10/2019	17:38
trans-1,2-Dichloroethene	< 2.00	ug/L		7/10/2019	17:38
trans-1,3-Dichloropropene	< 2.00	ug/L		7/10/2019	17:38
Trichloroethene	< 2.00	ug/L		7/10/2019	17:38
Trichlorofluoromethane	< 2.00	ug/L		7/10/2019	17:38
Vinyl chloride	< 2.00	ug/L		7/10/2019	17:38

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier: MWR-102
Lab Sample ID: 192983-07 **Date Sampled:** 6/27/2019
Matrix: Groundwater **Date Received:** 6/27/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**135**	73.4 - 131	*	7/10/2019	17:38
4-Bromofluorobenzene	**92.6**	57.2 - 129		7/10/2019	17:38
Pentafluorobenzene	**91.1**	87 - 112		7/10/2019	17:38
Toluene-D8	**94.1**	78.3 - 115		7/10/2019	17:38

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x62501.D

Report Prepared Monday, July 15, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	Blind Duplicate		
Lab Sample ID:	192983-08	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		7/9/2019 10:20

Method Reference(s): EPA 7470A
Preparation Date: 7/8/2019
Data File: Hg190709A

Report Prepared Monday, July 15, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	Blind Duplicate		
Lab Sample ID:	192983-08	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	< 0.100	mg/L		7/1/2019 15:30
Antimony	< 0.0600	mg/L		7/1/2019 15:30
Arsenic	< 0.0100	mg/L		7/1/2019 15:30
Barium	**0.0882**	mg/L	J	7/1/2019 15:30
Beryllium	< 0.00500	mg/L		7/1/2019 15:30
Cadmium	< 0.00500	mg/L		7/1/2019 15:30
Calcium	**181**	mg/L		7/1/2019 15:30
Chromium	< 0.0100	mg/L		7/1/2019 15:30
Cobalt	< 0.0500	mg/L		7/1/2019 15:30
Copper	< 0.0400	mg/L		7/1/2019 15:30
Iron	**3.61**	mg/L		7/1/2019 15:30
Lead	< 0.0100	mg/L		7/1/2019 15:30
Magnesium	**28.8**	mg/L		7/1/2019 15:30
Manganese	**0.387**	mg/L		7/1/2019 15:30
Nickel	< 0.0400	mg/L		7/1/2019 15:30
Potassium	**6.35**	mg/L		7/1/2019 15:30
Selenium	**0.0145**	mg/L	J	7/8/2019 16:41
Silver	< 0.0100	mg/L		7/1/2019 15:30
Sodium	**55.3**	mg/L		7/1/2019 15:30
Thallium	< 0.0250	mg/L		7/1/2019 15:30
Vanadium	< 0.0250	mg/L		7/1/2019 15:30
Zinc	< 0.0600	mg/L		7/1/2019 15:30

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 6/28/2019
Data File: 19070C

Report Prepared Monday, July 15, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	Blind Duplicate		
Lab Sample ID:	192983-08	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.3	ug/L		7/3/2019 00:42
1,2,4,5-Tetrachlorobenzene	< 10.3	ug/L		7/3/2019 00:42
1,2,4-Trichlorobenzene	< 10.3	ug/L		7/3/2019 00:42
1,2-Dichlorobenzene	< 10.3	ug/L		7/3/2019 00:42
1,3-Dichlorobenzene	< 10.3	ug/L		7/3/2019 00:42
1,4-Dichlorobenzene	< 10.3	ug/L		7/3/2019 00:42
2,2-Oxybis (1-chloropropane)	< 10.3	ug/L		7/3/2019 00:42
2,3,4,6-Tetrachlorophenol	< 10.3	ug/L		7/3/2019 00:42
2,4,5-Trichlorophenol	< 20.7	ug/L		7/3/2019 00:42
2,4,6-Trichlorophenol	< 10.3	ug/L		7/3/2019 00:42
2,4-Dichlorophenol	< 10.3	ug/L		7/3/2019 00:42
2,4-Dimethylphenol	< 20.7	ug/L		7/3/2019 00:42
2,4-Dinitrophenol	< 20.7	ug/L		7/3/2019 00:42
2,4-Dinitrotoluene	< 10.3	ug/L		7/3/2019 00:42
2,6-Dinitrotoluene	< 10.3	ug/L		7/3/2019 00:42
2-Chloronaphthalene	< 10.3	ug/L		7/3/2019 00:42
2-Chlorophenol	< 10.3	ug/L		7/3/2019 00:42
2-Methylnapthalene	< 10.3	ug/L		7/3/2019 00:42
2-Methylphenol	< 10.3	ug/L		7/3/2019 00:42
2-Nitroaniline	< 20.7	ug/L		7/3/2019 00:42
2-Nitrophenol	< 10.3	ug/L		7/3/2019 00:42
3&4-Methylphenol	< 10.3	ug/L		7/3/2019 00:42
3,3'-Dichlorobenzidine	< 10.3	ug/L		7/3/2019 00:42
3-Nitroaniline	< 20.7	ug/L		7/3/2019 00:42
4,6-Dinitro-2-methylphenol	< 20.7	ug/L		7/3/2019 00:42
4-Bromophenyl phenyl ether	< 10.3	ug/L		7/3/2019 00:42
4-Chloro-3-methylphenol	< 10.3	ug/L		7/3/2019 00:42

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	Blind Duplicate		
Lab Sample ID:	192983-08	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

4-Chloroaniline	< 10.3	ug/L	7/3/2019	00:42
4-Chlorophenyl phenyl ether	< 10.3	ug/L	7/3/2019	00:42
4-Nitroaniline	< 20.7	ug/L	7/3/2019	00:42
4-Nitrophenol	< 20.7	ug/L	7/3/2019	00:42
Acenaphthene	< 10.3	ug/L	7/3/2019	00:42
Acenaphthylene	< 10.3	ug/L	7/3/2019	00:42
Acetophenone	< 10.3	ug/L	7/3/2019	00:42
Anthracene	< 10.3	ug/L	7/3/2019	00:42
Atrazine	< 10.3	ug/L	7/3/2019	00:42
Benzaldehyde	< 10.3	ug/L	7/3/2019	00:42
Benzo (a) anthracene	< 10.3	ug/L	7/3/2019	00:42
Benzo (a) pyrene	< 10.3	ug/L	7/3/2019	00:42
Benzo (b) fluoranthene	< 10.3	ug/L	7/3/2019	00:42
Benzo (g,h,i) perylene	< 10.3	ug/L	7/3/2019	00:42
Benzo (k) fluoranthene	< 10.3	ug/L	7/3/2019	00:42
Bis (2-chloroethoxy) methane	< 10.3	ug/L	7/3/2019	00:42
Bis (2-chloroethyl) ether	< 10.3	ug/L	7/3/2019	00:42
Bis (2-ethylhexyl) phthalate	< 10.3	ug/L	7/3/2019	00:42
Butylbenzylphthalate	< 10.3	ug/L	7/3/2019	00:42
Caprolactam	< 10.3	ug/L	7/3/2019	00:42
Carbazole	< 10.3	ug/L	7/3/2019	00:42
Chrysene	< 10.3	ug/L	7/3/2019	00:42
Dibenz (a,h) anthracene	< 10.3	ug/L	7/3/2019	00:42
Dibenzofuran	< 10.3	ug/L	7/3/2019	00:42
Diethyl phthalate	< 10.3	ug/L	7/3/2019	00:42
Dimethyl phthalate	< 20.7	ug/L	7/3/2019	00:42
Di-n-butyl phthalate	< 10.3	ug/L	7/3/2019	00:42
Di-n-octylphthalate	< 10.3	ug/L	7/3/2019	00:42
Fluoranthene	< 10.3	ug/L	7/3/2019	00:42
Fluorene	< 10.3	ug/L	7/3/2019	00:42

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier: Blind Duplicate
Lab Sample ID: 192983-08 **Date Sampled:** 6/27/2019
Matrix: Groundwater **Date Received:** 6/27/2019

Hexachlorobenzene	< 10.3	ug/L	7/3/2019	00:42
Hexachlorobutadiene	< 10.3	ug/L	7/3/2019	00:42
Hexachlorocyclopentadiene	< 10.3	ug/L	7/3/2019	00:42
Hexachloroethane	< 10.3	ug/L	7/3/2019	00:42
Indeno (1,2,3-cd) pyrene	< 10.3	ug/L	7/3/2019	00:42
Isophorone	< 10.3	ug/L	7/3/2019	00:42
Naphthalene	< 10.3	ug/L	7/3/2019	00:42
Nitrobenzene	< 10.3	ug/L	7/3/2019	00:42
N-Nitroso-di-n-propylamine	< 10.3	ug/L	7/3/2019	00:42
N-Nitrosodiphenylamine	< 10.3	ug/L	7/3/2019	00:42
Pentachlorophenol	< 20.7	ug/L	7/3/2019	00:42
Phenanthrene	< 10.3	ug/L	7/3/2019	00:42
Phenol	< 10.3	ug/L	7/3/2019	00:42
Pyrene	< 10.3	ug/L	7/3/2019	00:42

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**88.6**	54.2 - 126		7/3/2019	00:42
2-Fluorobiphenyl	**62.1**	37.6 - 102		7/3/2019	00:42
2-Fluorophenol	**49.9**	15.1 - 106		7/3/2019	00:42
Nitrobenzene-d5	**82.1**	53.3 - 103		7/3/2019	00:42
Phenol-d5	**30.9**	10 - 108		7/3/2019	00:42
Terphenyl-d14	**82.4**	61.8 - 114		7/3/2019	00:42

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 7/1/2019
Data File: B38356.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	Blind Duplicate		
Lab Sample ID:	192983-08	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		7/10/2019 18:00
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		7/10/2019 18:00
1,1,2-Trichloroethane	< 2.00	ug/L		7/10/2019 18:00
1,1-Dichloroethane	< 2.00	ug/L		7/10/2019 18:00
1,1-Dichloroethene	< 2.00	ug/L		7/10/2019 18:00
1,2,3-Trichlorobenzene	< 5.00	ug/L		7/10/2019 18:00
1,2,4-Trichlorobenzene	< 5.00	ug/L		7/10/2019 18:00
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		7/10/2019 18:00
1,2-Dibromoethane	< 2.00	ug/L		7/10/2019 18:00
1,2-Dichlorobenzene	< 2.00	ug/L		7/10/2019 18:00
1,2-Dichloroethane	< 2.00	ug/L		7/10/2019 18:00
1,2-Dichloropropane	< 2.00	ug/L		7/10/2019 18:00
1,3-Dichlorobenzene	< 2.00	ug/L		7/10/2019 18:00
1,4-Dichlorobenzene	< 2.00	ug/L		7/10/2019 18:00
1,4-Dioxane	< 20.0	ug/L		7/10/2019 18:00
2-Butanone	< 10.0	ug/L		7/10/2019 18:00
2-Hexanone	< 5.00	ug/L		7/10/2019 18:00
4-Methyl-2-pentanone	< 5.00	ug/L		7/10/2019 18:00
Acetone	< 10.0	ug/L		7/10/2019 18:00
Benzene	< 1.00	ug/L		7/10/2019 18:00
Bromochloromethane	< 5.00	ug/L		7/10/2019 18:00
Bromodichloromethane	< 2.00	ug/L		7/10/2019 18:00
Bromoform	< 5.00	ug/L		7/10/2019 18:00
Bromomethane	< 2.00	ug/L		7/10/2019 18:00
Carbon disulfide	< 2.00	ug/L		7/10/2019 18:00
Carbon Tetrachloride	< 2.00	ug/L		7/10/2019 18:00
Chlorobenzene	< 2.00	ug/L		7/10/2019 18:00

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	Blind Duplicate		
Lab Sample ID:	192983-08	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

Chloroethane	< 2.00	ug/L	7/10/2019	18:00
Chloroform	< 2.00	ug/L	7/10/2019	18:00
Chloromethane	< 2.00	ug/L	7/10/2019	18:00
cis-1,2-Dichloroethene	< 2.00	ug/L	7/10/2019	18:00
cis-1,3-Dichloropropene	< 2.00	ug/L	7/10/2019	18:00
Cyclohexane	< 10.0	ug/L	7/10/2019	18:00
Dibromochloromethane	< 2.00	ug/L	7/10/2019	18:00
Dichlorodifluoromethane	< 2.00	ug/L	7/10/2019	18:00
Ethylbenzene	< 2.00	ug/L	7/10/2019	18:00
Freon 113	< 2.00	ug/L	7/10/2019	18:00
Isopropylbenzene	< 2.00	ug/L	7/10/2019	18:00
m,p-Xylene	< 2.00	ug/L	7/10/2019	18:00
Methyl acetate	< 2.00	ug/L	7/10/2019	18:00
Methyl tert-butyl Ether	< 2.00	ug/L	7/10/2019	18:00
Methylcyclohexane	< 2.00	ug/L	7/10/2019	18:00
Methylene chloride	< 5.00	ug/L	7/10/2019	18:00
o-Xylene	< 2.00	ug/L	7/10/2019	18:00
Styrene	< 5.00	ug/L	7/10/2019	18:00
Tetrachloroethene	< 2.00	ug/L	7/10/2019	18:00
Toluene	< 2.00	ug/L	7/10/2019	18:00
trans-1,2-Dichloroethene	< 2.00	ug/L	7/10/2019	18:00
trans-1,3-Dichloropropene	< 2.00	ug/L	7/10/2019	18:00
Trichloroethene	< 2.00	ug/L	7/10/2019	18:00
Trichlorofluoromethane	< 2.00	ug/L	7/10/2019	18:00
Vinyl chloride	< 2.00	ug/L	7/10/2019	18:00

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier: Blind Duplicate
Lab Sample ID: 192983-08 **Date Sampled:** 6/27/2019
Matrix: Groundwater **Date Received:** 6/27/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**132**	73.4 - 131	*	7/10/2019	18:00
4-Bromofluorobenzene	**89.8**	57.2 - 129		7/10/2019	18:00
Pentafluorobenzene	**89.5**	87 - 112		7/10/2019	18:00
Toluene-D8	**98.1**	78.3 - 115		7/10/2019	18:00

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x62502.D

Report Prepared Monday, July 15, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MW-105		
Lab Sample ID:	192983-09	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		7/9/2019 10:22

Method Reference(s): EPA 7470A
Preparation Date: 7/8/2019
Data File: Hg190709A

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Monday, July 15, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MW-105		
Lab Sample ID:	192983-09	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	< 0.100	mg/L		7/1/2019 15:35
Antimony	< 0.0600	mg/L		7/1/2019 15:35
Arsenic	< 0.0100	mg/L		7/1/2019 15:35
Barium	< 0.100	mg/L		7/1/2019 15:35
Beryllium	< 0.00500	mg/L		7/1/2019 15:35
Cadmium	< 0.00500	mg/L		7/1/2019 15:35
Calcium	**106**	mg/L		7/1/2019 15:35
Chromium	< 0.0100	mg/L		7/1/2019 15:35
Cobalt	< 0.0500	mg/L		7/1/2019 15:35
Copper	< 0.0400	mg/L		7/1/2019 15:35
Iron	< 0.100	mg/L		7/1/2019 15:35
Lead	< 0.0100	mg/L		7/1/2019 15:35
Magnesium	**116**	mg/L		7/1/2019 15:35
Manganese	**0.0950**	mg/L		7/1/2019 15:35
Nickel	< 0.0400	mg/L		7/1/2019 15:35
Potassium	**9.27**	mg/L		7/1/2019 15:35
Selenium	**0.0142**	mg/L	J	7/8/2019 16:46
Silver	< 0.0100	mg/L		7/1/2019 15:35
Sodium	**88.7**	mg/L		7/1/2019 15:35
Thallium	< 0.0250	mg/L		7/1/2019 15:35
Vanadium	< 0.0250	mg/L		7/1/2019 15:35
Zinc	**0.0494**	mg/L	J	7/1/2019 15:35

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 6/28/2019
Data File: 19070C

Report Prepared Monday, July 15, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MW-105		
Lab Sample ID:	192983-09	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.2	ug/L		7/3/2019 01:11
1,2,4,5-Tetrachlorobenzene	< 10.2	ug/L		7/3/2019 01:11
1,2,4-Trichlorobenzene	< 10.2	ug/L		7/3/2019 01:11
1,2-Dichlorobenzene	< 10.2	ug/L		7/3/2019 01:11
1,3-Dichlorobenzene	< 10.2	ug/L		7/3/2019 01:11
1,4-Dichlorobenzene	< 10.2	ug/L		7/3/2019 01:11
2,2-Oxybis (1-chloropropane)	< 10.2	ug/L		7/3/2019 01:11
2,3,4,6-Tetrachlorophenol	< 10.2	ug/L		7/3/2019 01:11
2,4,5-Trichlorophenol	< 20.4	ug/L		7/3/2019 01:11
2,4,6-Trichlorophenol	< 10.2	ug/L		7/3/2019 01:11
2,4-Dichlorophenol	< 10.2	ug/L		7/3/2019 01:11
2,4-Dimethylphenol	< 20.4	ug/L		7/3/2019 01:11
2,4-Dinitrophenol	< 20.4	ug/L		7/3/2019 01:11
2,4-Dinitrotoluene	< 10.2	ug/L		7/3/2019 01:11
2,6-Dinitrotoluene	< 10.2	ug/L		7/3/2019 01:11
2-Chloronaphthalene	< 10.2	ug/L		7/3/2019 01:11
2-Chlorophenol	< 10.2	ug/L		7/3/2019 01:11
2-Methylnapthalene	< 10.2	ug/L		7/3/2019 01:11
2-Methylphenol	< 10.2	ug/L		7/3/2019 01:11
2-Nitroaniline	< 20.4	ug/L		7/3/2019 01:11
2-Nitrophenol	< 10.2	ug/L		7/3/2019 01:11
3&4-Methylphenol	< 10.2	ug/L		7/3/2019 01:11
3,3'-Dichlorobenzidine	< 10.2	ug/L		7/3/2019 01:11
3-Nitroaniline	< 20.4	ug/L		7/3/2019 01:11
4,6-Dinitro-2-methylphenol	< 20.4	ug/L		7/3/2019 01:11
4-Bromophenyl phenyl ether	< 10.2	ug/L		7/3/2019 01:11
4-Chloro-3-methylphenol	< 10.2	ug/L		7/3/2019 01:11

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MW-105		
Lab Sample ID:	192983-09	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

4-Chloroaniline	< 10.2	ug/L	7/3/2019	01:11
4-Chlorophenyl phenyl ether	< 10.2	ug/L	7/3/2019	01:11
4-Nitroaniline	< 20.4	ug/L	7/3/2019	01:11
4-Nitrophenol	< 20.4	ug/L	7/3/2019	01:11
Acenaphthene	< 10.2	ug/L	7/3/2019	01:11
Acenaphthylene	< 10.2	ug/L	7/3/2019	01:11
Acetophenone	< 10.2	ug/L	7/3/2019	01:11
Anthracene	< 10.2	ug/L	7/3/2019	01:11
Atrazine	< 10.2	ug/L	7/3/2019	01:11
Benzaldehyde	< 10.2	ug/L	7/3/2019	01:11
Benzo (a) anthracene	< 10.2	ug/L	7/3/2019	01:11
Benzo (a) pyrene	< 10.2	ug/L	7/3/2019	01:11
Benzo (b) fluoranthene	< 10.2	ug/L	7/3/2019	01:11
Benzo (g,h,i) perylene	< 10.2	ug/L	7/3/2019	01:11
Benzo (k) fluoranthene	< 10.2	ug/L	7/3/2019	01:11
Bis (2-chloroethoxy) methane	< 10.2	ug/L	7/3/2019	01:11
Bis (2-chloroethyl) ether	< 10.2	ug/L	7/3/2019	01:11
Bis (2-ethylhexyl) phthalate	< 10.2	ug/L	7/3/2019	01:11
Butylbenzylphthalate	< 10.2	ug/L	7/3/2019	01:11
Caprolactam	< 10.2	ug/L	7/3/2019	01:11
Carbazole	< 10.2	ug/L	7/3/2019	01:11
Chrysene	< 10.2	ug/L	7/3/2019	01:11
Dibenz (a,h) anthracene	< 10.2	ug/L	7/3/2019	01:11
Dibenzofuran	< 10.2	ug/L	7/3/2019	01:11
Diethyl phthalate	< 10.2	ug/L	7/3/2019	01:11
Dimethyl phthalate	< 20.4	ug/L	7/3/2019	01:11
Di-n-butyl phthalate	< 10.2	ug/L	7/3/2019	01:11
Di-n-octylphthalate	< 10.2	ug/L	7/3/2019	01:11
Fluoranthene	< 10.2	ug/L	7/3/2019	01:11
Fluorene	< 10.2	ug/L	7/3/2019	01:11

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier: MW-105
Lab Sample ID: 192983-09 **Date Sampled:** 6/27/2019
Matrix: Groundwater **Date Received:** 6/27/2019

Hexachlorobenzene	< 10.2	ug/L	7/3/2019	01:11
Hexachlorobutadiene	< 10.2	ug/L	7/3/2019	01:11
Hexachlorocyclopentadiene	< 10.2	ug/L	7/3/2019	01:11
Hexachloroethane	< 10.2	ug/L	7/3/2019	01:11
Indeno (1,2,3-cd) pyrene	< 10.2	ug/L	7/3/2019	01:11
Isophorone	< 10.2	ug/L	7/3/2019	01:11
Naphthalene	< 10.2	ug/L	7/3/2019	01:11
Nitrobenzene	< 10.2	ug/L	7/3/2019	01:11
N-Nitroso-di-n-propylamine	< 10.2	ug/L	7/3/2019	01:11
N-Nitrosodiphenylamine	< 10.2	ug/L	7/3/2019	01:11
Pentachlorophenol	< 20.4	ug/L	7/3/2019	01:11
Phenanthrene	< 10.2	ug/L	7/3/2019	01:11
Phenol	< 10.2	ug/L	7/3/2019	01:11
Pyrene	< 10.2	ug/L	7/3/2019	01:11

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**81.3**	54.2 - 126		7/3/2019	01:11
2-Fluorobiphenyl	**60.7**	37.6 - 102		7/3/2019	01:11
2-Fluorophenol	**46.3**	15.1 - 106		7/3/2019	01:11
Nitrobenzene-d5	**83.8**	53.3 - 103		7/3/2019	01:11
Phenol-d5	**33.6**	10 - 108		7/3/2019	01:11
Terphenyl-d14	**88.7**	61.8 - 114		7/3/2019	01:11

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 7/1/2019
Data File: B38357.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	MW-105		
Lab Sample ID:	192983-09	**Date Sampled:**	6/27/2019
Matrix:	Groundwater	**Date Received:**	6/27/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		7/10/2019 18:22
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		7/10/2019 18:22
1,1,2-Trichloroethane	< 2.00	ug/L		7/10/2019 18:22
1,1-Dichloroethane	< 2.00	ug/L		7/10/2019 18:22
1,1-Dichloroethene	< 2.00	ug/L		7/10/2019 18:22
1,2,3-Trichlorobenzene	< 5.00	ug/L		7/10/2019 18:22
1,2,4-Trichlorobenzene	< 5.00	ug/L		7/10/2019 18:22
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		7/10/2019 18:22
1,2-Dibromoethane	< 2.00	ug/L		7/10/2019 18:22
1,2-Dichlorobenzene	< 2.00	ug/L		7/10/2019 18:22
1,2-Dichloroethane	< 2.00	ug/L		7/10/2019 18:22
1,2-Dichloropropane	< 2.00	ug/L		7/10/2019 18:22
1,3-Dichlorobenzene	< 2.00	ug/L		7/10/2019 18:22
1,4-Dichlorobenzene	< 2.00	ug/L		7/10/2019 18:22
1,4-Dioxane	< 20.0	ug/L		7/10/2019 18:22
2-Butanone	< 10.0	ug/L		7/10/2019 18:22
2-Hexanone	< 5.00	ug/L		7/10/2019 18:22
4-Methyl-2-pentanone	< 5.00	ug/L		7/10/2019 18:22
Acetone	< 10.0	ug/L		7/10/2019 18:22
Benzene	< 1.00	ug/L		7/10/2019 18:22
Bromochloromethane	< 5.00	ug/L		7/10/2019 18:22
Bromodichloromethane	< 2.00	ug/L		7/10/2019 18:22
Bromoform	< 5.00	ug/L		7/10/2019 18:22
Bromomethane	< 2.00	ug/L		7/10/2019 18:22
Carbon disulfide	< 2.00	ug/L		7/10/2019 18:22
Carbon Tetrachloride	< 2.00	ug/L		7/10/2019 18:22
Chlorobenzene	< 2.00	ug/L		7/10/2019 18:22

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier: MW-105
Lab Sample ID: 192983-09 **Date Sampled:** 6/27/2019
Matrix: Groundwater **Date Received:** 6/27/2019

Chloroethane	< 2.00	ug/L	7/10/2019	18:22
Chloroform	< 2.00	ug/L	7/10/2019	18:22
Chloromethane	< 2.00	ug/L	7/10/2019	18:22
cis-1,2-Dichloroethene	< 2.00	ug/L	7/10/2019	18:22
cis-1,3-Dichloropropene	< 2.00	ug/L	7/10/2019	18:22
Cyclohexane	< 10.0	ug/L	7/10/2019	18:22
Dibromochloromethane	< 2.00	ug/L	7/10/2019	18:22
Dichlorodifluoromethane	< 2.00	ug/L	7/10/2019	18:22
Ethylbenzene	< 2.00	ug/L	7/10/2019	18:22
Freon 113	< 2.00	ug/L	7/10/2019	18:22
Isopropylbenzene	< 2.00	ug/L	7/10/2019	18:22
m,p-Xylene	< 2.00	ug/L	7/10/2019	18:22
Methyl acetate	< 2.00	ug/L	7/10/2019	18:22
Methyl tert-butyl Ether	< 2.00	ug/L	7/10/2019	18:22
Methylcyclohexane	< 2.00	ug/L	7/10/2019	18:22
Methylene chloride	< 5.00	ug/L	7/10/2019	18:22
o-Xylene	< 2.00	ug/L	7/10/2019	18:22
Styrene	< 5.00	ug/L	7/10/2019	18:22
Tetrachloroethene	< 2.00	ug/L	7/10/2019	18:22
Toluene	< 2.00	ug/L	7/10/2019	18:22
trans-1,2-Dichloroethene	< 2.00	ug/L	7/10/2019	18:22
trans-1,3-Dichloropropene	< 2.00	ug/L	7/10/2019	18:22
Trichloroethene	< 2.00	ug/L	7/10/2019	18:22
Trichlorofluoromethane	< 2.00	ug/L	7/10/2019	18:22
Vinyl chloride	< 2.00	ug/L	7/10/2019	18:22

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier: MW-105
Lab Sample ID: 192983-09 **Date Sampled:** 6/27/2019
Matrix: Groundwater **Date Received:** 6/27/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	**134**	73.4 - 131	*	7/10/2019 18:22
4-Bromofluorobenzene	**93.5**	57.2 - 129		7/10/2019 18:22
Pentafluorobenzene	**85.2**	87 - 112	*	7/10/2019 18:22
Toluene-D8	**92.7**	78.3 - 115		7/10/2019 18:22

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x62503.D

Report Prepared Monday, July 15, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier:	Trip Blank T934		
Lab Sample ID:	192983-10	**Date Sampled:**	6/26/2019
Matrix:	Water	**Date Received:**	6/27/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		7/10/2019 15:00
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		7/10/2019 15:00
1,1,2-Trichloroethane	< 2.00	ug/L		7/10/2019 15:00
1,1-Dichloroethane	< 2.00	ug/L		7/10/2019 15:00
1,1-Dichloroethene	< 2.00	ug/L		7/10/2019 15:00
1,2,3-Trichlorobenzene	< 5.00	ug/L		7/10/2019 15:00
1,2,4-Trichlorobenzene	< 5.00	ug/L		7/10/2019 15:00
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		7/10/2019 15:00
1,2-Dibromoethane	< 2.00	ug/L		7/10/2019 15:00
1,2-Dichlorobenzene	< 2.00	ug/L		7/10/2019 15:00
1,2-Dichloroethane	< 2.00	ug/L		7/10/2019 15:00
1,2-Dichloropropane	< 2.00	ug/L		7/10/2019 15:00
1,3-Dichlorobenzene	< 2.00	ug/L		7/10/2019 15:00
1,4-Dichlorobenzene	< 2.00	ug/L		7/10/2019 15:00
1,4-Dioxane	< 20.0	ug/L		7/10/2019 15:00
2-Butanone	< 10.0	ug/L		7/10/2019 15:00
2-Hexanone	< 5.00	ug/L		7/10/2019 15:00
4-Methyl-2-pentanone	< 5.00	ug/L		7/10/2019 15:00
Acetone	< 10.0	ug/L		7/10/2019 15:00
Benzene	< 1.00	ug/L		7/10/2019 15:00
Bromochloromethane	< 5.00	ug/L		7/10/2019 15:00
Bromodichloromethane	< 2.00	ug/L		7/10/2019 15:00
Bromoform	< 5.00	ug/L		7/10/2019 15:00
Bromomethane	< 2.00	ug/L		7/10/2019 15:00
Carbon disulfide	< 2.00	ug/L		7/10/2019 15:00
Carbon Tetrachloride	< 2.00	ug/L		7/10/2019 15:00
Chlorobenzene	< 2.00	ug/L		7/10/2019 15:00

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier: Trip Blank T934
Lab Sample ID: 192983-10 **Date Sampled:** 6/26/2019
Matrix: Water **Date Received:** 6/27/2019

Chloroethane	< 2.00	ug/L	7/10/2019	15:00
Chloroform	< 2.00	ug/L	7/10/2019	15:00
Chloromethane	< 2.00	ug/L	7/10/2019	15:00
cis-1,2-Dichloroethene	< 2.00	ug/L	7/10/2019	15:00
cis-1,3-Dichloropropene	< 2.00	ug/L	7/10/2019	15:00
Cyclohexane	< 10.0	ug/L	7/10/2019	15:00
Dibromochloromethane	< 2.00	ug/L	7/10/2019	15:00
Dichlorodifluoromethane	< 2.00	ug/L	7/10/2019	15:00
Ethylbenzene	< 2.00	ug/L	7/10/2019	15:00
Freon 113	< 2.00	ug/L	7/10/2019	15:00
Isopropylbenzene	< 2.00	ug/L	7/10/2019	15:00
m,p-Xylene	< 2.00	ug/L	7/10/2019	15:00
Methyl acetate	< 2.00	ug/L	7/10/2019	15:00
Methyl tert-butyl Ether	< 2.00	ug/L	7/10/2019	15:00
Methylcyclohexane	< 2.00	ug/L	7/10/2019	15:00
Methylene chloride	< 5.00	ug/L	7/10/2019	15:00
o-Xylene	< 2.00	ug/L	7/10/2019	15:00
Styrene	< 5.00	ug/L	7/10/2019	15:00
Tetrachloroethene	< 2.00	ug/L	7/10/2019	15:00
Toluene	< 2.00	ug/L	7/10/2019	15:00
trans-1,2-Dichloroethene	< 2.00	ug/L	7/10/2019	15:00
trans-1,3-Dichloropropene	< 2.00	ug/L	7/10/2019	15:00
Trichloroethene	< 2.00	ug/L	7/10/2019	15:00
Trichlorofluoromethane	< 2.00	ug/L	7/10/2019	15:00
Vinyl chloride	< 2.00	ug/L	7/10/2019	15:00

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 192983

Client: **Bergmann Associates**

Project Reference: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Sample Identifier: Trip Blank T934

Lab Sample ID: 192983-10 **Date Sampled:** 6/26/2019

Matrix: Water **Date Received:** 6/27/2019

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**122**	73.4 - 131		7/10/2019	15:00
4-Bromofluorobenzene	**89.0**	57.2 - 129		7/10/2019	15:00
Pentafluorobenzene	**93.0**	87 - 112		7/10/2019	15:00
Toluene-D8	**91.5**	78.3 - 115		7/10/2019	15:00

Method Reference(s): EPA 8260C
EPA 5030C

Data File: x62494.D

Report Prepared Monday, July 15, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:	INVOICE TO:	
CLIENT: Bergmann	CLIENT: Same	LAB PROJECT ID: 192983
ADDRESS: 280 E. Broad Street	ADDRESS:	Quotation #:
CITY: Rochester STATE: NY ZIP	CITY: STATE: ZIP:	
PHONE:	PHONE:	Email: Steve Demeo
ATTN: Steve DeMeo	ATTN:	

PROJECT REFERENCE: VOA 2nd Qtr. 2019 BACK Lot 214 Lake Ave

Matrix Codes:
AQ - Aqueous Liquid, NQ - Non-Aqueous Liquid, WA - Water, WG - Groundwater, DW - Drinking Water, WW - Wastewater, SO - Soil, SL - Sludge, SD - Solid, PT - Paint, WP - Wipe, CK - Caulk, OL - Oil, AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED (SOM)	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	8260 Plus CP51	8270 BN	TAL Metals	REMARKS	PARADIGM LAB SAMPLE NUMBER
6/27/19	0900		X	MW-101	WG	4	X	X	X	8270 ABN per email	01
↓	0850		X	MWR-101	WG	4	X	X	X	8260 TCL MM 6/27/19	02
	1015		X	MW-103	WG	4	X	X	X		03
	1130		X	MW-107	WG	4	X	X	X		04
	1130		X	MW-107 MS	WG	4	X	X	X		04
	1130		X	MW-107 MSD	WG	4	X	X	X		04
	1200		X	MW-106	WG	4	X	X	X		05
	200		X	MW-102	WG	4	X	X	X		06
	235		X	MWR-102	WG	4	X	X	X		07
	1130		✓	Blind Duplicate	WG	4	X	X	X		08

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	None Required	☐	None Required	☐
10 day	☒	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Date Needed ____ please indicate date needed:		Other please indicate package needed:	☐	Other EDD please indicate EDD needed:	☐

CAT B ASP

Stephen J DeMeo 6/27/19
Sampled By — Date/Time

[signature] 1545 6/27/19
Relinquished By — Date/Time

Jane J Dalosa 6/27/19 1545
Received By — Date/Time

Molly Vail 6/27/19 1556
Received @ Lab By — Date/Time

3°C iced 6/27/19 custody seal N/A client delivered 1554 Molly Vail

Total Cost:

P.I.F.

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

2013

PARADIGM ENVIRONMENTAL SERVICES, INC

REPORT TO:	INVOICE TO:	
CLIENT: Bergmann	CLIENT:	LAB PROJECT ID: 192983
ADDRESS: 280 E. Broad Street	ADDRESS:	Quotation #:
CITY: Rochester STATE: NY ZIP	CITY: STATE: ZIP:	Email: SteveDeMeo
PHONE:	PHONE:	
ATTN: SteveDeMeo	ATTN:	

PROJECT REFERENCE: VOA 2nd Qtr. 2019 Back Lot 214 Lake Ave

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	8260 plus CP51	8270 BN	TAL Metals	REMARKS	PARADIGM LAB SAMPLE NUMBER
6/27/19	3:10		X	MW-105	WG	4	X	X	X		09
6/26/19				Trip Blank T934	W	1	X				10
pH label mw 6/27/19				per label mw 6/27/19							

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	None Required	☐	None Required	☐
10 day	☒	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Date Needed _____ please indicate date needed:		Other please indicate package needed:	☐	Other EDD please indicate EDD needed :	☐

Sampled By: Stephen J. DeMeo 6/27/19 Date/Time

Relinquished By: 6/27/19 1545 Date/Time

Received By: Jane J. Dalosi 6/27/19 1545 Date/Time

Received @ Lab By: Molly Reid 6/27/19 1556 Date/Time

Total Cost:

P.I.F.

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

Chain of Custody Supplement

Client: Bergmann Completed by: Molly Neil

Lab Project ID: 192983 Date: 6/27/19

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	VOA		X
Comments			
Preservation	VOA, met		5VOA
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		met
Comments	3°C ice		
Compliant Sample Quantity/Type	X		
Comments			

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MW-102		
Lab Sample ID:	194905-01	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		10/9/2019 09:01

Method Reference(s): EPA 7470A
Preparation Date: 10/8/2019
Data File: Hg191009A

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Thursday, October 17, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MW-102		
Lab Sample ID:	194905-01	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**0.586**	mg/L		10/9/2019 20:23
Antimony	**0.0337**	mg/L	J	10/9/2019 20:23
Arsenic	< 0.0100	mg/L		10/11/2019 15:45
Barium	**0.973**	mg/L		10/9/2019 20:23
Beryllium	< 0.00500	mg/L		10/9/2019 20:23
Cadmium	< 0.00500	mg/L		10/9/2019 20:23
Calcium	**63.9**	mg/L		10/11/2019 15:41
Chromium	< 0.0100	mg/L		10/9/2019 20:23
Cobalt	< 0.0500	mg/L		10/9/2019 20:23
Copper	< 0.0400	mg/L		10/11/2019 15:45
Iron	**53.9**	mg/L		10/9/2019 20:23
Lead	**0.00928**	mg/L	J	10/9/2019 20:23
Magnesium	**183**	mg/L		10/9/2019 20:23
Manganese	**1.70**	mg/L		10/9/2019 20:23
Nickel	< 0.0400	mg/L		10/9/2019 20:23
Potassium	**47.7**	mg/L		10/9/2019 20:23
Selenium	< 0.0200	mg/L		10/11/2019 15:45
Silver	< 0.0100	mg/L		10/9/2019 20:23
Sodium	**187**	mg/L		10/11/2019 15:41
Thallium	**0.0584**	mg/L		10/11/2019 15:45
Vanadium	< 0.0250	mg/L		10/9/2019 20:23
Zinc	**0.0650**	mg/L		10/9/2019 20:23

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MW-102		
Lab Sample ID:	194905-01	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

Method Reference(s):	EPA 6010C
	EPA 3005A
Preparation Date:	10/8/2019
Data File:	191009B

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Thursday, October 17, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MW-102		
Lab Sample ID:	194905-01	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

Semi-Volatile Organics (Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		10/8/2019 22:16
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		10/8/2019 22:16
1,2,4-Trichlorobenzene	< 10.0	ug/L		10/8/2019 22:16
1,2-Dichlorobenzene	< 10.0	ug/L		10/8/2019 22:16
1,3-Dichlorobenzene	< 10.0	ug/L		10/8/2019 22:16
1,4-Dichlorobenzene	< 10.0	ug/L		10/8/2019 22:16
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		10/8/2019 22:16
2,4-Dinitrotoluene	< 10.0	ug/L		10/8/2019 22:16
2,6-Dinitrotoluene	< 10.0	ug/L		10/8/2019 22:16
2-Chloronaphthalene	< 10.0	ug/L		10/8/2019 22:16
2-Methylnapthalene	< 10.0	ug/L		10/8/2019 22:16
2-Nitroaniline	< 20.0	ug/L		10/8/2019 22:16
3,3'-Dichlorobenzidine	< 10.0	ug/L		10/8/2019 22:16
3-Nitroaniline	< 20.0	ug/L		10/8/2019 22:16
4-Bromophenyl phenyl ether	< 10.0	ug/L		10/8/2019 22:16
4-Chloroaniline	< 10.0	ug/L		10/8/2019 22:16
4-Chlorophenyl phenyl ether	< 10.0	ug/L		10/8/2019 22:16
4-Nitroaniline	< 20.0	ug/L		10/8/2019 22:16
Acenaphthene	< 10.0	ug/L		10/8/2019 22:16
Acenaphthylene	< 10.0	ug/L		10/8/2019 22:16
Acetophenone	< 10.0	ug/L		10/8/2019 22:16
Anthracene	< 10.0	ug/L		10/8/2019 22:16
Atrazine	< 10.0	ug/L		10/8/2019 22:16

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MW-102		
Lab Sample ID:	194905-01	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

Benzaldehyde	< 10.0	ug/L	10/8/2019	22:16
Benzo (a) anthracene	< 10.0	ug/L	10/8/2019	22:16
Benzo (a) pyrene	< 10.0	ug/L	10/8/2019	22:16
Benzo (b) fluoranthene	< 10.0	ug/L	10/8/2019	22:16
Benzo (g,h,i) perylene	< 10.0	ug/L	10/8/2019	22:16
Benzo (k) fluoranthene	< 10.0	ug/L	10/8/2019	22:16
Bis (2-chloroethoxy) methane	< 10.0	ug/L	10/8/2019	22:16
Bis (2-chloroethyl) ether	< 10.0	ug/L	10/8/2019	22:16
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	10/8/2019	22:16
Butylbenzylphthalate	< 10.0	ug/L	10/8/2019	22:16
Caprolactam	< 10.0	ug/L	10/8/2019	22:16
Carbazole	< 10.0	ug/L	10/8/2019	22:16
Chrysene	< 10.0	ug/L	10/8/2019	22:16
Dibenz (a,h) anthracene	< 10.0	ug/L	10/8/2019	22:16
Dibenzofuran	< 10.0	ug/L	10/8/2019	22:16
Diethyl phthalate	< 10.0	ug/L	10/8/2019	22:16
Dimethyl phthalate	< 20.0	ug/L	10/8/2019	22:16
Di-n-butyl phthalate	< 10.0	ug/L	10/8/2019	22:16
Di-n-octylphthalate	< 10.0	ug/L	10/8/2019	22:16
Fluoranthene	< 10.0	ug/L	10/8/2019	22:16
Fluorene	< 10.0	ug/L	10/8/2019	22:16
Hexachlorobenzene	< 10.0	ug/L	10/8/2019	22:16
Hexachlorobutadiene	< 10.0	ug/L	10/8/2019	22:16
Hexachlorocyclopentadiene	< 10.0	ug/L	10/8/2019	22:16
Hexachloroethane	< 10.0	ug/L	10/8/2019	22:16

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MW-102
Lab Sample ID: 194905-01 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	10/8/2019	22:16
Isophorone	< 10.0	ug/L	10/8/2019	22:16
Naphthalene	< 10.0	ug/L	10/8/2019	22:16
Nitrobenzene	< 10.0	ug/L	10/8/2019	22:16
N-Nitroso-di-n-propylamine	< 10.0	ug/L	10/8/2019	22:16
N-Nitrosodiphenylamine	< 10.0	ug/L	10/8/2019	22:16
Phenanthrene	< 10.0	ug/L	10/8/2019	22:16
Pyrene	< 10.0	ug/L	10/8/2019	22:16

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2-Fluorobiphenyl	**44.8**	36.3 - 95.4		10/8/2019	22:16
Nitrobenzene-d5	**63.8**	52.1 - 98.9		10/8/2019	22:16
Terphenyl-d14	**72.2**	59.6 - 112		10/8/2019	22:16

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 10/8/2019
Data File: B40632.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MW-102
Lab Sample ID: 194905-01 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		10/16/2019 17:43
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		10/16/2019 17:43
1,1,2-Trichloroethane	< 2.00	ug/L		10/16/2019 17:43
1,1-Dichloroethane	< 2.00	ug/L		10/16/2019 17:43
1,1-Dichloroethene	< 2.00	ug/L		10/16/2019 17:43
1,2,3-Trichlorobenzene	< 5.00	ug/L		10/16/2019 17:43
1,2,4-Trichlorobenzene	< 5.00	ug/L		10/16/2019 17:43
1,2,4-Trimethylbenzene	< 2.00	ug/L		10/16/2019 17:43
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		10/16/2019 17:43
1,2-Dibromoethane	< 2.00	ug/L		10/16/2019 17:43
1,2-Dichlorobenzene	< 2.00	ug/L		10/16/2019 17:43
1,2-Dichloroethane	< 2.00	ug/L		10/16/2019 17:43
1,2-Dichloropropane	< 2.00	ug/L		10/16/2019 17:43
1,3,5-Trimethylbenzene	< 2.00	ug/L		10/16/2019 17:43
1,3-Dichlorobenzene	< 2.00	ug/L		10/16/2019 17:43
1,4-Dichlorobenzene	< 2.00	ug/L		10/16/2019 17:43
1,4-Dioxane	< 20.0	ug/L		10/16/2019 17:43
2-Butanone	< 10.0	ug/L		10/16/2019 17:43
2-Hexanone	< 5.00	ug/L		10/16/2019 17:43
4-Methyl-2-pentanone	< 5.00	ug/L		10/16/2019 17:43
Acetone	< 10.0	ug/L		10/16/2019 17:43
Benzene	< 1.00	ug/L		10/16/2019 17:43
Bromochloromethane	< 5.00	ug/L		10/16/2019 17:43

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MW-102
Lab Sample ID: 194905-01 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

Bromodichloromethane	< 2.00	ug/L	10/16/2019	17:43
Bromoform	< 5.00	ug/L	10/16/2019	17:43
Bromomethane	< 2.00	ug/L	10/16/2019	17:43
Carbon disulfide	< 2.00	ug/L	10/16/2019	17:43
Carbon Tetrachloride	< 2.00	ug/L	10/16/2019	17:43
Chlorobenzene	< 2.00	ug/L	10/16/2019	17:43
Chloroethane	< 2.00	ug/L	10/16/2019	17:43
Chloroform	< 2.00	ug/L	10/16/2019	17:43
Chloromethane	< 2.00	ug/L	10/16/2019	17:43
cis-1,2-Dichloroethene	< 2.00	ug/L	10/16/2019	17:43
cis-1,3-Dichloropropene	< 2.00	ug/L	10/16/2019	17:43
Cyclohexane	< 10.0	ug/L	10/16/2019	17:43
Dibromochloromethane	< 2.00	ug/L	10/16/2019	17:43
Dichlorodifluoromethane	< 2.00	ug/L	10/16/2019	17:43
Ethylbenzene	< 2.00	ug/L	10/16/2019	17:43
Freon 113	< 2.00	ug/L	10/16/2019	17:43
Isopropylbenzene	< 2.00	ug/L	10/16/2019	17:43
m,p-Xylene	< 2.00	ug/L	10/16/2019	17:43
Methyl acetate	< 2.00	ug/L	10/16/2019	17:43
Methyl tert-butyl Ether	< 2.00	ug/L	10/16/2019	17:43
Methylcyclohexane	< 2.00	ug/L	10/16/2019	17:43
Methylene chloride	< 5.00	ug/L	10/16/2019	17:43
Naphthalene	< 5.00	ug/L	10/16/2019	17:43
n-Butylbenzene	< 2.00	ug/L	10/16/2019	17:43
n-Propylbenzene	< 2.00	ug/L	10/16/2019	17:43

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MW-102
Lab Sample ID: 194905-01 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

o-Xylene	< 2.00	ug/L	10/16/2019	17:43
p-Isopropyltoluene	< 2.00	ug/L	10/16/2019	17:43
sec-Butylbenzene	< 2.00	ug/L	10/16/2019	17:43
Styrene	< 5.00	ug/L	10/16/2019	17:43
tert-Butylbenzene	< 2.00	ug/L	10/16/2019	17:43
Tetrachloroethene	< 2.00	ug/L	10/16/2019	17:43
Toluene	< 2.00	ug/L	10/16/2019	17:43
trans-1,2-Dichloroethene	< 2.00	ug/L	10/16/2019	17:43
trans-1,3-Dichloropropene	< 2.00	ug/L	10/16/2019	17:43
Trichloroethene	< 2.00	ug/L	10/16/2019	17:43
Trichlorofluoromethane	< 2.00	ug/L	10/16/2019	17:43
Vinyl chloride	< 2.00	ug/L	10/16/2019	17:43

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**119**	70.5 - 135		10/16/2019	17:43
4-Bromofluorobenzene	**90.1**	62 - 127		10/16/2019	17:43
Pentafluorobenzene	**89.2**	87 - 113		10/16/2019	17:43
Toluene-D8	**97.7**	80.8 - 115		10/16/2019	17:43

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x65356.D

Report Prepared Thursday, October 17, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MWR-102		
Lab Sample ID:	194905-02	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		10/9/2019 09:06

Method Reference(s): EPA 7470A
Preparation Date: 10/8/2019
Data File: Hg191009A

Report Prepared Thursday, October 17, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MWR-102		
Lab Sample ID:	194905-02	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	< 0.100	mg/L		10/9/2019 20:27
Antimony	< 0.0600	mg/L		10/9/2019 20:27
Arsenic	< 0.0100	mg/L		10/11/2019 15:59
Barium	**0.0664**	mg/L	J	10/9/2019 20:27
Beryllium	< 0.00500	mg/L		10/9/2019 20:27
Cadmium	< 0.00500	mg/L		10/9/2019 20:27
Calcium	**101**	mg/L		10/9/2019 20:27
Chromium	< 0.0100	mg/L		10/9/2019 20:27
Cobalt	< 0.0500	mg/L		10/9/2019 20:27
Copper	< 0.0400	mg/L		10/11/2019 15:59
Iron	< 0.100	mg/L		10/9/2019 20:27
Lead	< 0.0100	mg/L		10/9/2019 20:27
Magnesium	**65.1**	mg/L		10/9/2019 20:27
Manganese	< 0.0150	mg/L		10/9/2019 20:27
Nickel	< 0.0400	mg/L		10/9/2019 20:27
Potassium	**10.5**	mg/L		10/9/2019 20:27
Selenium	< 0.0200	mg/L		10/11/2019 15:59
Silver	< 0.0100	mg/L		10/9/2019 20:27
Sodium	**298**	mg/L		10/9/2019 20:27
Thallium	< 0.0250	mg/L		10/11/2019 15:59
Vanadium	< 0.0250	mg/L		10/9/2019 20:27
Zinc	**0.0433**	mg/L	J	10/9/2019 20:27

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MWR-102		
Lab Sample ID:	194905-02	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

Method Reference(s):	EPA 6010C
	EPA 3005A
Preparation Date:	10/8/2019
Data File:	191009B

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Report Prepared Thursday, October 17, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MWR-102		
Lab Sample ID:	194905-02	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

Semi-Volatile Organics (Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		10/8/2019 22:44
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		10/8/2019 22:44
1,2,4-Trichlorobenzene	< 10.0	ug/L		10/8/2019 22:44
1,2-Dichlorobenzene	< 10.0	ug/L		10/8/2019 22:44
1,3-Dichlorobenzene	< 10.0	ug/L		10/8/2019 22:44
1,4-Dichlorobenzene	< 10.0	ug/L		10/8/2019 22:44
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		10/8/2019 22:44
2,4-Dinitrotoluene	< 10.0	ug/L		10/8/2019 22:44
2,6-Dinitrotoluene	< 10.0	ug/L		10/8/2019 22:44
2-Chloronaphthalene	< 10.0	ug/L		10/8/2019 22:44
2-Methylnapthalene	< 10.0	ug/L		10/8/2019 22:44
2-Nitroaniline	< 20.0	ug/L		10/8/2019 22:44
3,3'-Dichlorobenzidine	< 10.0	ug/L		10/8/2019 22:44
3-Nitroaniline	< 20.0	ug/L		10/8/2019 22:44
4-Bromophenyl phenyl ether	< 10.0	ug/L		10/8/2019 22:44
4-Chloroaniline	< 10.0	ug/L		10/8/2019 22:44
4-Chlorophenyl phenyl ether	< 10.0	ug/L		10/8/2019 22:44
4-Nitroaniline	< 20.0	ug/L		10/8/2019 22:44
Acenaphthene	< 10.0	ug/L		10/8/2019 22:44
Acenaphthylene	< 10.0	ug/L		10/8/2019 22:44
Acetophenone	< 10.0	ug/L		10/8/2019 22:44
Anthracene	< 10.0	ug/L		10/8/2019 22:44
Atrazine	< 10.0	ug/L		10/8/2019 22:44

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MWR-102
Lab Sample ID: 194905-02 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

Benzaldehyde	< 10.0	ug/L	10/8/2019	22:44
Benzo (a) anthracene	< 10.0	ug/L	10/8/2019	22:44
Benzo (a) pyrene	< 10.0	ug/L	10/8/2019	22:44
Benzo (b) fluoranthene	< 10.0	ug/L	10/8/2019	22:44
Benzo (g,h,i) perylene	< 10.0	ug/L	10/8/2019	22:44
Benzo (k) fluoranthene	< 10.0	ug/L	10/8/2019	22:44
Bis (2-chloroethoxy) methane	< 10.0	ug/L	10/8/2019	22:44
Bis (2-chloroethyl) ether	< 10.0	ug/L	10/8/2019	22:44
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	10/8/2019	22:44
Butylbenzylphthalate	< 10.0	ug/L	10/8/2019	22:44
Caprolactam	< 10.0	ug/L	10/8/2019	22:44
Carbazole	< 10.0	ug/L	10/8/2019	22:44
Chrysene	< 10.0	ug/L	10/8/2019	22:44
Dibenz (a,h) anthracene	< 10.0	ug/L	10/8/2019	22:44
Dibenzofuran	< 10.0	ug/L	10/8/2019	22:44
Diethyl phthalate	< 10.0	ug/L	10/8/2019	22:44
Dimethyl phthalate	< 20.0	ug/L	10/8/2019	22:44
Di-n-butyl phthalate	< 10.0	ug/L	10/8/2019	22:44
Di-n-octylphthalate	< 10.0	ug/L	10/8/2019	22:44
Fluoranthene	< 10.0	ug/L	10/8/2019	22:44
Fluorene	< 10.0	ug/L	10/8/2019	22:44
Hexachlorobenzene	< 10.0	ug/L	10/8/2019	22:44
Hexachlorobutadiene	< 10.0	ug/L	10/8/2019	22:44
Hexachlorocyclopentadiene	< 10.0	ug/L	10/8/2019	22:44
Hexachloroethane	< 10.0	ug/L	10/8/2019	22:44

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MWR-102
Lab Sample ID: 194905-02 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	10/8/2019	22:44
Isophorone	< 10.0	ug/L	10/8/2019	22:44
Naphthalene	< 10.0	ug/L	10/8/2019	22:44
Nitrobenzene	< 10.0	ug/L	10/8/2019	22:44
N-Nitroso-di-n-propylamine	< 10.0	ug/L	10/8/2019	22:44
N-Nitrosodiphenylamine	< 10.0	ug/L	10/8/2019	22:44
Phenanthrene	< 10.0	ug/L	10/8/2019	22:44
Pyrene	< 10.0	ug/L	10/8/2019	22:44

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2-Fluorobiphenyl	**46.4**	36.3 - 95.4		10/8/2019	22:44
Nitrobenzene-d5	**67.4**	52.1 - 98.9		10/8/2019	22:44
Terphenyl-d14	**79.4**	59.6 - 112		10/8/2019	22:44

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 10/8/2019
Data File: B40633.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MWR-102
Lab Sample ID: 194905-02 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		10/16/2019 17:20
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		10/16/2019 17:20
1,1,2-Trichloroethane	< 2.00	ug/L		10/16/2019 17:20
1,1-Dichloroethane	< 2.00	ug/L		10/16/2019 17:20
1,1-Dichloroethene	< 2.00	ug/L		10/16/2019 17:20
1,2,3-Trichlorobenzene	< 5.00	ug/L		10/16/2019 17:20
1,2,4-Trichlorobenzene	< 5.00	ug/L		10/16/2019 17:20
1,2,4-Trimethylbenzene	< 2.00	ug/L		10/16/2019 17:20
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		10/16/2019 17:20
1,2-Dibromoethane	< 2.00	ug/L		10/16/2019 17:20
1,2-Dichlorobenzene	< 2.00	ug/L		10/16/2019 17:20
1,2-Dichloroethane	< 2.00	ug/L		10/16/2019 17:20
1,2-Dichloropropane	< 2.00	ug/L		10/16/2019 17:20
1,3,5-Trimethylbenzene	< 2.00	ug/L		10/16/2019 17:20
1,3-Dichlorobenzene	< 2.00	ug/L		10/16/2019 17:20
1,4-Dichlorobenzene	< 2.00	ug/L		10/16/2019 17:20
1,4-Dioxane	< 20.0	ug/L		10/16/2019 17:20
2-Butanone	< 10.0	ug/L		10/16/2019 17:20
2-Hexanone	< 5.00	ug/L		10/16/2019 17:20
4-Methyl-2-pentanone	< 5.00	ug/L		10/16/2019 17:20
Acetone	< 10.0	ug/L		10/16/2019 17:20
Benzene	< 1.00	ug/L		10/16/2019 17:20
Bromochloromethane	< 5.00	ug/L		10/16/2019 17:20

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MWR-102		
Lab Sample ID:	194905-02	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

Bromodichloromethane	< 2.00	ug/L	10/16/2019	17:20
Bromoform	< 5.00	ug/L	10/16/2019	17:20
Bromomethane	< 2.00	ug/L	10/16/2019	17:20
Carbon disulfide	< 2.00	ug/L	10/16/2019	17:20
Carbon Tetrachloride	< 2.00	ug/L	10/16/2019	17:20
Chlorobenzene	< 2.00	ug/L	10/16/2019	17:20
Chloroethane	< 2.00	ug/L	10/16/2019	17:20
Chloroform	< 2.00	ug/L	10/16/2019	17:20
Chloromethane	< 2.00	ug/L	10/16/2019	17:20
cis-1,2-Dichloroethene	< 2.00	ug/L	10/16/2019	17:20
cis-1,3-Dichloropropene	< 2.00	ug/L	10/16/2019	17:20
Cyclohexane	< 10.0	ug/L	10/16/2019	17:20
Dibromochloromethane	< 2.00	ug/L	10/16/2019	17:20
Dichlorodifluoromethane	< 2.00	ug/L	10/16/2019	17:20
Ethylbenzene	< 2.00	ug/L	10/16/2019	17:20
Freon 113	< 2.00	ug/L	10/16/2019	17:20
Isopropylbenzene	< 2.00	ug/L	10/16/2019	17:20
m,p-Xylene	< 2.00	ug/L	10/16/2019	17:20
Methyl acetate	< 2.00	ug/L	10/16/2019	17:20
Methyl tert-butyl Ether	**11.5**	ug/L	10/16/2019	17:20
Methylcyclohexane	< 2.00	ug/L	10/16/2019	17:20
Methylene chloride	< 5.00	ug/L	10/16/2019	17:20
Naphthalene	< 5.00	ug/L	10/16/2019	17:20
n-Butylbenzene	< 2.00	ug/L	10/16/2019	17:20
n-Propylbenzene	< 2.00	ug/L	10/16/2019	17:20

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MWR-102
Lab Sample ID: 194905-02 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

o-Xylene	< 2.00	ug/L	10/16/2019	17:20
p-Isopropyltoluene	< 2.00	ug/L	10/16/2019	17:20
sec-Butylbenzene	< 2.00	ug/L	10/16/2019	17:20
Styrene	< 5.00	ug/L	10/16/2019	17:20
tert-Butylbenzene	< 2.00	ug/L	10/16/2019	17:20
Tetrachloroethene	< 2.00	ug/L	10/16/2019	17:20
Toluene	< 2.00	ug/L	10/16/2019	17:20
trans-1,2-Dichloroethene	< 2.00	ug/L	10/16/2019	17:20
trans-1,3-Dichloropropene	< 2.00	ug/L	10/16/2019	17:20
Trichloroethene	< 2.00	ug/L	10/16/2019	17:20
Trichlorofluoromethane	< 2.00	ug/L	10/16/2019	17:20
Vinyl chloride	< 2.00	ug/L	10/16/2019	17:20

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**114**	70.5 - 135		10/16/2019	17:20
4-Bromofluorobenzene	**80.5**	62 - 127		10/16/2019	17:20
Pentafluorobenzene	**92.6**	87 - 113		10/16/2019	17:20
Toluene-D8	**91.1**	80.8 - 115		10/16/2019	17:20

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x65355.D

Report Prepared Thursday, October 17, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MW-10X		
Lab Sample ID:	194905-03	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		10/9/2019 09:08

Method Reference(s): EPA 7470A
Preparation Date: 10/8/2019
Data File: Hg191009A

Report Prepared Thursday, October 17, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MW-10X		
Lab Sample ID:	194905-03	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	< 0.100	mg/L		10/9/2019 20:31
Antimony	< 0.0600	mg/L		10/9/2019 20:31
Arsenic	< 0.0100	mg/L		10/11/2019 16:03
Barium	**0.0657**	mg/L	J	10/9/2019 20:31
Beryllium	< 0.00500	mg/L		10/9/2019 20:31
Cadmium	< 0.00500	mg/L		10/9/2019 20:31
Calcium	**100**	mg/L		10/9/2019 20:31
Chromium	< 0.0100	mg/L		10/9/2019 20:31
Cobalt	< 0.0500	mg/L		10/9/2019 20:31
Copper	< 0.0400	mg/L		10/11/2019 16:03
Iron	< 0.100	mg/L		10/9/2019 20:31
Lead	< 0.0100	mg/L		10/9/2019 20:31
Magnesium	**65.3**	mg/L		10/9/2019 20:31
Manganese	< 0.0150	mg/L		10/9/2019 20:31
Nickel	< 0.0400	mg/L		10/9/2019 20:31
Potassium	**10.5**	mg/L		10/9/2019 20:31
Selenium	< 0.0200	mg/L		10/11/2019 16:03
Silver	< 0.0100	mg/L		10/9/2019 20:31
Sodium	**298**	mg/L		10/9/2019 20:31
Thallium	< 0.0250	mg/L		10/9/2019 20:31
Vanadium	< 0.0250	mg/L		10/9/2019 20:31
Zinc	< 0.0600	mg/L		10/9/2019 20:31

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MW-10X		
Lab Sample ID:	194905-03	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

Method Reference(s):	EPA 6010C
	EPA 3005A
Preparation Date:	10/8/2019
Data File:	191009B

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Thursday, October 17, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MW-10X		
Lab Sample ID:	194905-03	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

Semi-Volatile Organics (Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		10/8/2019 23:13
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		10/8/2019 23:13
1,2,4-Trichlorobenzene	< 10.0	ug/L		10/8/2019 23:13
1,2-Dichlorobenzene	< 10.0	ug/L		10/8/2019 23:13
1,3-Dichlorobenzene	< 10.0	ug/L		10/8/2019 23:13
1,4-Dichlorobenzene	< 10.0	ug/L		10/8/2019 23:13
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		10/8/2019 23:13
2,4-Dinitrotoluene	< 10.0	ug/L		10/8/2019 23:13
2,6-Dinitrotoluene	< 10.0	ug/L		10/8/2019 23:13
2-Chloronaphthalene	< 10.0	ug/L		10/8/2019 23:13
2-Methylnapthalene	< 10.0	ug/L		10/8/2019 23:13
2-Nitroaniline	< 20.0	ug/L		10/8/2019 23:13
3,3'-Dichlorobenzidine	< 10.0	ug/L		10/8/2019 23:13
3-Nitroaniline	< 20.0	ug/L		10/8/2019 23:13
4-Bromophenyl phenyl ether	< 10.0	ug/L		10/8/2019 23:13
4-Chloroaniline	< 10.0	ug/L		10/8/2019 23:13
4-Chlorophenyl phenyl ether	< 10.0	ug/L		10/8/2019 23:13
4-Nitroaniline	< 20.0	ug/L		10/8/2019 23:13
Acenaphthene	< 10.0	ug/L		10/8/2019 23:13
Acenaphthylene	< 10.0	ug/L		10/8/2019 23:13
Acetophenone	< 10.0	ug/L		10/8/2019 23:13
Anthracene	< 10.0	ug/L		10/8/2019 23:13
Atrazine	< 10.0	ug/L		10/8/2019 23:13

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MW-10X		
Lab Sample ID:	194905-03	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

Benzaldehyde	< 10.0	ug/L	10/8/2019	23:13
Benzo (a) anthracene	< 10.0	ug/L	10/8/2019	23:13
Benzo (a) pyrene	< 10.0	ug/L	10/8/2019	23:13
Benzo (b) fluoranthene	< 10.0	ug/L	10/8/2019	23:13
Benzo (g,h,i) perylene	< 10.0	ug/L	10/8/2019	23:13
Benzo (k) fluoranthene	< 10.0	ug/L	10/8/2019	23:13
Bis (2-chloroethoxy) methane	< 10.0	ug/L	10/8/2019	23:13
Bis (2-chloroethyl) ether	< 10.0	ug/L	10/8/2019	23:13
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	10/8/2019	23:13
Butylbenzylphthalate	< 10.0	ug/L	10/8/2019	23:13
Caprolactam	< 10.0	ug/L	10/8/2019	23:13
Carbazole	< 10.0	ug/L	10/8/2019	23:13
Chrysene	< 10.0	ug/L	10/8/2019	23:13
Dibenz (a,h) anthracene	< 10.0	ug/L	10/8/2019	23:13
Dibenzofuran	< 10.0	ug/L	10/8/2019	23:13
Diethyl phthalate	< 10.0	ug/L	10/8/2019	23:13
Dimethyl phthalate	< 20.0	ug/L	10/8/2019	23:13
Di-n-butyl phthalate	< 10.0	ug/L	10/8/2019	23:13
Di-n-octylphthalate	< 10.0	ug/L	10/8/2019	23:13
Fluoranthene	< 10.0	ug/L	10/8/2019	23:13
Fluorene	< 10.0	ug/L	10/8/2019	23:13
Hexachlorobenzene	< 10.0	ug/L	10/8/2019	23:13
Hexachlorobutadiene	< 10.0	ug/L	10/8/2019	23:13
Hexachlorocyclopentadiene	< 10.0	ug/L	10/8/2019	23:13
Hexachloroethane	< 10.0	ug/L	10/8/2019	23:13

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MW-10X
Lab Sample ID: 194905-03 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	10/8/2019	23:13
Isophorone	< 10.0	ug/L	10/8/2019	23:13
Naphthalene	< 10.0	ug/L	10/8/2019	23:13
Nitrobenzene	< 10.0	ug/L	10/8/2019	23:13
N-Nitroso-di-n-propylamine	< 10.0	ug/L	10/8/2019	23:13
N-Nitrosodiphenylamine	< 10.0	ug/L	10/8/2019	23:13
Phenanthrene	< 10.0	ug/L	10/8/2019	23:13
Pyrene	< 10.0	ug/L	10/8/2019	23:13

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2-Fluorobiphenyl	**49.1**	36.3 - 95.4		10/8/2019	23:13
Nitrobenzene-d5	**70.8**	52.1 - 98.9		10/8/2019	23:13
Terphenyl-d14	**84.4**	59.6 - 112		10/8/2019	23:13

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 10/8/2019
Data File: B40634.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MW-10X
Lab Sample ID: 194905-03 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		10/16/2019 16:58
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		10/16/2019 16:58
1,1,2-Trichloroethane	< 2.00	ug/L		10/16/2019 16:58
1,1-Dichloroethane	< 2.00	ug/L		10/16/2019 16:58
1,1-Dichloroethene	< 2.00	ug/L		10/16/2019 16:58
1,2,3-Trichlorobenzene	< 5.00	ug/L		10/16/2019 16:58
1,2,4-Trichlorobenzene	< 5.00	ug/L		10/16/2019 16:58
1,2,4-Trimethylbenzene	< 2.00	ug/L		10/16/2019 16:58
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		10/16/2019 16:58
1,2-Dibromoethane	< 2.00	ug/L		10/16/2019 16:58
1,2-Dichlorobenzene	< 2.00	ug/L		10/16/2019 16:58
1,2-Dichloroethane	< 2.00	ug/L		10/16/2019 16:58
1,2-Dichloropropane	< 2.00	ug/L		10/16/2019 16:58
1,3,5-Trimethylbenzene	< 2.00	ug/L		10/16/2019 16:58
1,3-Dichlorobenzene	< 2.00	ug/L		10/16/2019 16:58
1,4-Dichlorobenzene	< 2.00	ug/L		10/16/2019 16:58
1,4-Dioxane	< 20.0	ug/L		10/16/2019 16:58
2-Butanone	< 10.0	ug/L		10/16/2019 16:58
2-Hexanone	< 5.00	ug/L		10/16/2019 16:58
4-Methyl-2-pentanone	< 5.00	ug/L		10/16/2019 16:58
Acetone	< 10.0	ug/L		10/16/2019 16:58
Benzene	< 1.00	ug/L		10/16/2019 16:58
Bromochloromethane	< 5.00	ug/L		10/16/2019 16:58

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MW-10X		
Lab Sample ID:	194905-03	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

Bromodichloromethane	< 2.00	ug/L	10/16/2019	16:58
Bromoform	< 5.00	ug/L	10/16/2019	16:58
Bromomethane	< 2.00	ug/L	10/16/2019	16:58
Carbon disulfide	< 2.00	ug/L	10/16/2019	16:58
Carbon Tetrachloride	< 2.00	ug/L	10/16/2019	16:58
Chlorobenzene	< 2.00	ug/L	10/16/2019	16:58
Chloroethane	< 2.00	ug/L	10/16/2019	16:58
Chloroform	< 2.00	ug/L	10/16/2019	16:58
Chloromethane	< 2.00	ug/L	10/16/2019	16:58
cis-1,2-Dichloroethene	< 2.00	ug/L	10/16/2019	16:58
cis-1,3-Dichloropropene	< 2.00	ug/L	10/16/2019	16:58
Cyclohexane	< 10.0	ug/L	10/16/2019	16:58
Dibromochloromethane	< 2.00	ug/L	10/16/2019	16:58
Dichlorodifluoromethane	< 2.00	ug/L	10/16/2019	16:58
Ethylbenzene	< 2.00	ug/L	10/16/2019	16:58
Freon 113	< 2.00	ug/L	10/16/2019	16:58
Isopropylbenzene	< 2.00	ug/L	10/16/2019	16:58
m,p-Xylene	< 2.00	ug/L	10/16/2019	16:58
Methyl acetate	< 2.00	ug/L	10/16/2019	16:58
Methyl tert-butyl Ether	**11.8**	ug/L	10/16/2019	16:58
Methylcyclohexane	< 2.00	ug/L	10/16/2019	16:58
Methylene chloride	< 5.00	ug/L	10/16/2019	16:58
Naphthalene	< 5.00	ug/L	10/16/2019	16:58
n-Butylbenzene	< 2.00	ug/L	10/16/2019	16:58
n-Propylbenzene	< 2.00	ug/L	10/16/2019	16:58

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MW-10X
Lab Sample ID: 194905-03 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

o-Xylene	< 2.00	ug/L	10/16/2019	16:58
p-Isopropyltoluene	< 2.00	ug/L	10/16/2019	16:58
sec-Butylbenzene	< 2.00	ug/L	10/16/2019	16:58
Styrene	< 5.00	ug/L	10/16/2019	16:58
tert-Butylbenzene	< 2.00	ug/L	10/16/2019	16:58
Tetrachloroethene	< 2.00	ug/L	10/16/2019	16:58
Toluene	< 2.00	ug/L	10/16/2019	16:58
trans-1,2-Dichloroethene	< 2.00	ug/L	10/16/2019	16:58
trans-1,3-Dichloropropene	< 2.00	ug/L	10/16/2019	16:58
Trichloroethene	< 2.00	ug/L	10/16/2019	16:58
Trichlorofluoromethane	< 2.00	ug/L	10/16/2019	16:58
Vinyl chloride	< 2.00	ug/L	10/16/2019	16:58

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**113**	70.5 - 135		10/16/2019	16:58
4-Bromofluorobenzene	**84.9**	62 - 127		10/16/2019	16:58
Pentafluorobenzene	**93.2**	87 - 113		10/16/2019	16:58
Toluene-D8	**93.6**	80.8 - 115		10/16/2019	16:58

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x65354.D

Report Prepared Thursday, October 17, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MW-101		
Lab Sample ID:	194905-04	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.00315**	mg/L		10/9/2019 09:10

Method Reference(s): EPA 7470A
Preparation Date: 10/8/2019
Data File: Hg191009A

Report Prepared Thursday, October 17, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MW-101		
Lab Sample ID:	194905-04	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**1.17**	mg/L		10/9/2019 20:36
Antimony	< 0.0600	mg/L		10/9/2019 20:36
Arsenic	< 0.0100	mg/L		10/11/2019 16:08
Barium	**0.155**	mg/L		10/9/2019 20:36
Beryllium	< 0.00500	mg/L		10/9/2019 20:36
Cadmium	< 0.00500	mg/L		10/9/2019 20:36
Calcium	**116**	mg/L		10/9/2019 20:36
Chromium	< 0.0100	mg/L		10/9/2019 20:36
Cobalt	< 0.0500	mg/L		10/9/2019 20:36
Copper	**0.0329**	mg/L	J	10/11/2019 16:08
Iron	**10.5**	mg/L		10/9/2019 20:36
Lead	**0.173**	mg/L		10/9/2019 20:36
Magnesium	**27.6**	mg/L		10/9/2019 20:36
Manganese	**0.534**	mg/L		10/9/2019 20:36
Nickel	< 0.0400	mg/L		10/9/2019 20:36
Potassium	**8.29**	mg/L		10/9/2019 20:36
Selenium	< 0.0200	mg/L		10/11/2019 16:08
Silver	< 0.0100	mg/L		10/9/2019 20:36
Sodium	**149**	mg/L		10/9/2019 20:36
Thallium	< 0.0250	mg/L		10/11/2019 16:08
Vanadium	< 0.0250	mg/L		10/9/2019 20:36
Zinc	**0.188**	mg/L		10/9/2019 20:36

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MW-101		
Lab Sample ID:	194905-04	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

Method Reference(s):	EPA 6010C
	EPA 3005A
Preparation Date:	10/8/2019
Data File:	191009B

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Thursday, October 17, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MW-101
Lab Sample ID: 194905-04 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

Semi-Volatile Organics (Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		10/8/2019 23:42
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		10/8/2019 23:42
1,2,4-Trichlorobenzene	< 10.0	ug/L		10/8/2019 23:42
1,2-Dichlorobenzene	< 10.0	ug/L		10/8/2019 23:42
1,3-Dichlorobenzene	< 10.0	ug/L		10/8/2019 23:42
1,4-Dichlorobenzene	< 10.0	ug/L		10/8/2019 23:42
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		10/8/2019 23:42
2,4-Dinitrotoluene	< 10.0	ug/L		10/8/2019 23:42
2,6-Dinitrotoluene	< 10.0	ug/L		10/8/2019 23:42
2-Chloronaphthalene	< 10.0	ug/L		10/8/2019 23:42
2-Methylnapthalene	< 10.0	ug/L		10/8/2019 23:42
2-Nitroaniline	< 20.0	ug/L		10/8/2019 23:42
3,3'-Dichlorobenzidine	< 10.0	ug/L		10/8/2019 23:42
3-Nitroaniline	< 20.0	ug/L		10/8/2019 23:42
4-Bromophenyl phenyl ether	< 10.0	ug/L		10/8/2019 23:42
4-Chloroaniline	< 10.0	ug/L		10/8/2019 23:42
4-Chlorophenyl phenyl ether	< 10.0	ug/L		10/8/2019 23:42
4-Nitroaniline	< 20.0	ug/L		10/8/2019 23:42
Acenaphthene	< 10.0	ug/L		10/8/2019 23:42
Acenaphthylene	< 10.0	ug/L		10/8/2019 23:42
Acetophenone	< 10.0	ug/L		10/8/2019 23:42
Anthracene	< 10.0	ug/L		10/8/2019 23:42
Atrazine	< 10.0	ug/L		10/8/2019 23:42

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MW-101		
Lab Sample ID:	194905-04	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

Benzaldehyde	< 10.0	ug/L	10/8/2019	23:42
Benzo (a) anthracene	< 10.0	ug/L	10/8/2019	23:42
Benzo (a) pyrene	< 10.0	ug/L	10/8/2019	23:42
Benzo (b) fluoranthene	< 10.0	ug/L	10/8/2019	23:42
Benzo (g,h,i) perylene	< 10.0	ug/L	10/8/2019	23:42
Benzo (k) fluoranthene	< 10.0	ug/L	10/8/2019	23:42
Bis (2-chloroethoxy) methane	< 10.0	ug/L	10/8/2019	23:42
Bis (2-chloroethyl) ether	< 10.0	ug/L	10/8/2019	23:42
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	10/8/2019	23:42
Butylbenzylphthalate	< 10.0	ug/L	10/8/2019	23:42
Caprolactam	< 10.0	ug/L	10/8/2019	23:42
Carbazole	< 10.0	ug/L	10/8/2019	23:42
Chrysene	< 10.0	ug/L	10/8/2019	23:42
Dibenz (a,h) anthracene	< 10.0	ug/L	10/8/2019	23:42
Dibenzofuran	< 10.0	ug/L	10/8/2019	23:42
Diethyl phthalate	< 10.0	ug/L	10/8/2019	23:42
Dimethyl phthalate	< 20.0	ug/L	10/8/2019	23:42
Di-n-butyl phthalate	< 10.0	ug/L	10/8/2019	23:42
Di-n-octylphthalate	< 10.0	ug/L	10/8/2019	23:42
Fluoranthene	< 10.0	ug/L	10/8/2019	23:42
Fluorene	< 10.0	ug/L	10/8/2019	23:42
Hexachlorobenzene	< 10.0	ug/L	10/8/2019	23:42
Hexachlorobutadiene	< 10.0	ug/L	10/8/2019	23:42
Hexachlorocyclopentadiene	< 10.0	ug/L	10/8/2019	23:42
Hexachloroethane	< 10.0	ug/L	10/8/2019	23:42

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MW-101
Lab Sample ID: 194905-04 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	10/8/2019	23:42
Isophorone	< 10.0	ug/L	10/8/2019	23:42
Naphthalene	< 10.0	ug/L	10/8/2019	23:42
Nitrobenzene	< 10.0	ug/L	10/8/2019	23:42
N-Nitroso-di-n-propylamine	< 10.0	ug/L	10/8/2019	23:42
N-Nitrosodiphenylamine	< 10.0	ug/L	10/8/2019	23:42
Phenanthrene	< 10.0	ug/L	10/8/2019	23:42
Pyrene	< 10.0	ug/L	10/8/2019	23:42

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2-Fluorobiphenyl	**43.0**	36.3 - 95.4		10/8/2019	23:42
Nitrobenzene-d5	**67.7**	52.1 - 98.9		10/8/2019	23:42
Terphenyl-d14	**73.5**	59.6 - 112		10/8/2019	23:42

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 10/8/2019
Data File: B40635.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MW-101
Lab Sample ID: 194905-04 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		10/16/2019 16:36
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		10/16/2019 16:36
1,1,2-Trichloroethane	< 2.00	ug/L		10/16/2019 16:36
1,1-Dichloroethane	< 2.00	ug/L		10/16/2019 16:36
1,1-Dichloroethene	< 2.00	ug/L		10/16/2019 16:36
1,2,3-Trichlorobenzene	< 5.00	ug/L		10/16/2019 16:36
1,2,4-Trichlorobenzene	< 5.00	ug/L		10/16/2019 16:36
1,2,4-Trimethylbenzene	< 2.00	ug/L		10/16/2019 16:36
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		10/16/2019 16:36
1,2-Dibromoethane	< 2.00	ug/L		10/16/2019 16:36
1,2-Dichlorobenzene	< 2.00	ug/L		10/16/2019 16:36
1,2-Dichloroethane	< 2.00	ug/L		10/16/2019 16:36
1,2-Dichloropropane	< 2.00	ug/L		10/16/2019 16:36
1,3,5-Trimethylbenzene	< 2.00	ug/L		10/16/2019 16:36
1,3-Dichlorobenzene	< 2.00	ug/L		10/16/2019 16:36
1,4-Dichlorobenzene	< 2.00	ug/L		10/16/2019 16:36
1,4-Dioxane	< 20.0	ug/L		10/16/2019 16:36
2-Butanone	< 10.0	ug/L		10/16/2019 16:36
2-Hexanone	< 5.00	ug/L		10/16/2019 16:36
4-Methyl-2-pentanone	< 5.00	ug/L		10/16/2019 16:36
Acetone	< 10.0	ug/L		10/16/2019 16:36
Benzene	< 1.00	ug/L		10/16/2019 16:36
Bromochloromethane	< 5.00	ug/L		10/16/2019 16:36

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MW-101
Lab Sample ID: 194905-04 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

Bromodichloromethane	< 2.00	ug/L	10/16/2019	16:36
Bromoform	< 5.00	ug/L	10/16/2019	16:36
Bromomethane	< 2.00	ug/L	10/16/2019	16:36
Carbon disulfide	< 2.00	ug/L	10/16/2019	16:36
Carbon Tetrachloride	< 2.00	ug/L	10/16/2019	16:36
Chlorobenzene	< 2.00	ug/L	10/16/2019	16:36
Chloroethane	< 2.00	ug/L	10/16/2019	16:36
Chloroform	< 2.00	ug/L	10/16/2019	16:36
Chloromethane	< 2.00	ug/L	10/16/2019	16:36
cis-1,2-Dichloroethene	< 2.00	ug/L	10/16/2019	16:36
cis-1,3-Dichloropropene	< 2.00	ug/L	10/16/2019	16:36
Cyclohexane	< 10.0	ug/L	10/16/2019	16:36
Dibromochloromethane	< 2.00	ug/L	10/16/2019	16:36
Dichlorodifluoromethane	< 2.00	ug/L	10/16/2019	16:36
Ethylbenzene	< 2.00	ug/L	10/16/2019	16:36
Freon 113	< 2.00	ug/L	10/16/2019	16:36
Isopropylbenzene	< 2.00	ug/L	10/16/2019	16:36
m,p-Xylene	< 2.00	ug/L	10/16/2019	16:36
Methyl acetate	< 2.00	ug/L	10/16/2019	16:36
Methyl tert-butyl Ether	< 2.00	ug/L	10/16/2019	16:36
Methylcyclohexane	< 2.00	ug/L	10/16/2019	16:36
Methylene chloride	< 5.00	ug/L	10/16/2019	16:36
Naphthalene	< 5.00	ug/L	10/16/2019	16:36
n-Butylbenzene	< 2.00	ug/L	10/16/2019	16:36
n-Propylbenzene	< 2.00	ug/L	10/16/2019	16:36

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MW-101
Lab Sample ID: 194905-04 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

o-Xylene	< 2.00	ug/L	10/16/2019	16:36
p-Isopropyltoluene	< 2.00	ug/L	10/16/2019	16:36
sec-Butylbenzene	< 2.00	ug/L	10/16/2019	16:36
Styrene	< 5.00	ug/L	10/16/2019	16:36
tert-Butylbenzene	< 2.00	ug/L	10/16/2019	16:36
Tetrachloroethene	< 2.00	ug/L	10/16/2019	16:36
Toluene	< 2.00	ug/L	10/16/2019	16:36
trans-1,2-Dichloroethene	< 2.00	ug/L	10/16/2019	16:36
trans-1,3-Dichloropropene	< 2.00	ug/L	10/16/2019	16:36
Trichloroethene	< 2.00	ug/L	10/16/2019	16:36
Trichlorofluoromethane	< 2.00	ug/L	10/16/2019	16:36
Vinyl chloride	< 2.00	ug/L	10/16/2019	16:36

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**111**	70.5 - 135		10/16/2019	16:36
4-Bromofluorobenzene	**86.3**	62 - 127		10/16/2019	16:36
Pentafluorobenzene	**93.1**	87 - 113		10/16/2019	16:36
Toluene-D8	**90.6**	80.8 - 115		10/16/2019	16:36

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x65353.D

Report Prepared Thursday, October 17, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MWR-101		
Lab Sample ID:	194905-05	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.000174**	mg/L	J	10/9/2019 10:05

Method Reference(s): EPA 7470A
Preparation Date: 10/8/2019
Data File: Hg191009A

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MWR-101		
Lab Sample ID:	194905-05	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**3.49**	mg/L		10/9/2019 20:40
Antimony	< 0.0600	mg/L		10/9/2019 20:40
Arsenic	< 0.0100	mg/L		10/11/2019 16:12
Barium	< 0.100	mg/L		10/9/2019 20:40
Beryllium	< 0.00500	mg/L		10/9/2019 20:40
Cadmium	< 0.00500	mg/L		10/9/2019 20:40
Calcium	**6.46**	mg/L		10/9/2019 20:40
Chromium	< 0.0100	mg/L		10/9/2019 20:40
Cobalt	< 0.0500	mg/L		10/9/2019 20:40
Copper	< 0.0400	mg/L		10/11/2019 16:12
Iron	**1.83**	mg/L		10/9/2019 20:40
Lead	**0.0204**	mg/L		10/9/2019 20:40
Magnesium	**2.05**	mg/L	J	10/9/2019 20:40
Manganese	**0.0279**	mg/L		10/9/2019 20:40
Nickel	< 0.0400	mg/L		10/9/2019 20:40
Potassium	**2.58**	mg/L		10/9/2019 20:40
Selenium	< 0.0200	mg/L		10/11/2019 16:12
Silver	< 0.0100	mg/L		10/9/2019 20:40
Sodium	**210**	mg/L		10/9/2019 20:40
Thallium	< 0.0250	mg/L		10/9/2019 20:40
Vanadium	< 0.0250	mg/L		10/9/2019 20:40
Zinc	**0.0800**	mg/L		10/9/2019 20:40

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MWR-101		
Lab Sample ID:	194905-05	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

Method Reference(s):	EPA 6010C
	EPA 3005A
Preparation Date:	10/8/2019
Data File:	191009B

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Report Prepared Thursday, October 17, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MWR-101		
Lab Sample ID:	194905-05	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

Semi-Volatile Organics (Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 9.75	ug/L		10/9/2019 00:10
1,2,4,5-Tetrachlorobenzene	< 9.75	ug/L		10/9/2019 00:10
1,2,4-Trichlorobenzene	< 9.75	ug/L		10/9/2019 00:10
1,2-Dichlorobenzene	< 9.75	ug/L		10/9/2019 00:10
1,3-Dichlorobenzene	< 9.75	ug/L		10/9/2019 00:10
1,4-Dichlorobenzene	< 9.75	ug/L		10/9/2019 00:10
2,2-Oxybis (1-chloropropane)	< 9.75	ug/L		10/9/2019 00:10
2,4-Dinitrotoluene	< 9.75	ug/L		10/9/2019 00:10
2,6-Dinitrotoluene	< 9.75	ug/L		10/9/2019 00:10
2-Chloronaphthalene	< 9.75	ug/L		10/9/2019 00:10
2-Methylnapthalene	< 9.75	ug/L		10/9/2019 00:10
2-Nitroaniline	< 19.5	ug/L		10/9/2019 00:10
3,3'-Dichlorobenzidine	< 9.75	ug/L		10/9/2019 00:10
3-Nitroaniline	< 19.5	ug/L		10/9/2019 00:10
4-Bromophenyl phenyl ether	< 9.75	ug/L		10/9/2019 00:10
4-Chloroaniline	< 9.75	ug/L		10/9/2019 00:10
4-Chlorophenyl phenyl ether	< 9.75	ug/L		10/9/2019 00:10
4-Nitroaniline	< 19.5	ug/L		10/9/2019 00:10
Acenaphthene	< 9.75	ug/L		10/9/2019 00:10
Acenaphthylene	< 9.75	ug/L		10/9/2019 00:10
Acetophenone	< 9.75	ug/L		10/9/2019 00:10
Anthracene	< 9.75	ug/L		10/9/2019 00:10
Atrazine	< 9.75	ug/L		10/9/2019 00:10

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MWR-101		
Lab Sample ID:	194905-05	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

Benzaldehyde	< 9.75	ug/L	10/9/2019	00:10
Benzo (a) anthracene	< 9.75	ug/L	10/9/2019	00:10
Benzo (a) pyrene	< 9.75	ug/L	10/9/2019	00:10
Benzo (b) fluoranthene	< 9.75	ug/L	10/9/2019	00:10
Benzo (g,h,i) perylene	< 9.75	ug/L	10/9/2019	00:10
Benzo (k) fluoranthene	< 9.75	ug/L	10/9/2019	00:10
Bis (2-chloroethoxy) methane	< 9.75	ug/L	10/9/2019	00:10
Bis (2-chloroethyl) ether	< 9.75	ug/L	10/9/2019	00:10
Bis (2-ethylhexyl) phthalate	< 9.75	ug/L	10/9/2019	00:10
Butylbenzylphthalate	< 9.75	ug/L	10/9/2019	00:10
Caprolactam	< 9.75	ug/L	10/9/2019	00:10
Carbazole	< 9.75	ug/L	10/9/2019	00:10
Chrysene	< 9.75	ug/L	10/9/2019	00:10
Dibenz (a,h) anthracene	< 9.75	ug/L	10/9/2019	00:10
Dibenzofuran	< 9.75	ug/L	10/9/2019	00:10
Diethyl phthalate	< 9.75	ug/L	10/9/2019	00:10
Dimethyl phthalate	< 19.5	ug/L	10/9/2019	00:10
Di-n-butyl phthalate	< 9.75	ug/L	10/9/2019	00:10
Di-n-octylphthalate	< 9.75	ug/L	10/9/2019	00:10
Fluoranthene	< 9.75	ug/L	10/9/2019	00:10
Fluorene	< 9.75	ug/L	10/9/2019	00:10
Hexachlorobenzene	< 9.75	ug/L	10/9/2019	00:10
Hexachlorobutadiene	< 9.75	ug/L	10/9/2019	00:10
Hexachlorocyclopentadiene	< 9.75	ug/L	10/9/2019	00:10
Hexachloroethane	< 9.75	ug/L	10/9/2019	00:10

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MWR-101
Lab Sample ID: 194905-05 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

Indeno (1,2,3-cd) pyrene	< 9.75	ug/L	10/9/2019	00:10
Isophorone	< 9.75	ug/L	10/9/2019	00:10
Naphthalene	< 9.75	ug/L	10/9/2019	00:10
Nitrobenzene	< 9.75	ug/L	10/9/2019	00:10
N-Nitroso-di-n-propylamine	< 9.75	ug/L	10/9/2019	00:10
N-Nitrosodiphenylamine	< 9.75	ug/L	10/9/2019	00:10
Phenanthrene	< 9.75	ug/L	10/9/2019	00:10
Pyrene	< 9.75	ug/L	10/9/2019	00:10

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2-Fluorobiphenyl	**67.8**	36.3 - 95.4		10/9/2019	00:10
Nitrobenzene-d5	**77.4**	52.1 - 98.9		10/9/2019	00:10
Terphenyl-d14	**77.0**	59.6 - 112		10/9/2019	00:10

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 10/8/2019
Data File: B40636.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MWR-101
Lab Sample ID: 194905-05 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		10/16/2019 16:13
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		10/16/2019 16:13
1,1,2-Trichloroethane	< 2.00	ug/L		10/16/2019 16:13
1,1-Dichloroethane	< 2.00	ug/L		10/16/2019 16:13
1,1-Dichloroethene	< 2.00	ug/L		10/16/2019 16:13
1,2,3-Trichlorobenzene	< 5.00	ug/L		10/16/2019 16:13
1,2,4-Trichlorobenzene	< 5.00	ug/L		10/16/2019 16:13
1,2,4-Trimethylbenzene	< 2.00	ug/L		10/16/2019 16:13
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		10/16/2019 16:13
1,2-Dibromoethane	< 2.00	ug/L		10/16/2019 16:13
1,2-Dichlorobenzene	< 2.00	ug/L		10/16/2019 16:13
1,2-Dichloroethane	< 2.00	ug/L		10/16/2019 16:13
1,2-Dichloropropane	< 2.00	ug/L		10/16/2019 16:13
1,3,5-Trimethylbenzene	< 2.00	ug/L		10/16/2019 16:13
1,3-Dichlorobenzene	< 2.00	ug/L		10/16/2019 16:13
1,4-Dichlorobenzene	< 2.00	ug/L		10/16/2019 16:13
1,4-Dioxane	< 20.0	ug/L		10/16/2019 16:13
2-Butanone	< 10.0	ug/L		10/16/2019 16:13
2-Hexanone	< 5.00	ug/L		10/16/2019 16:13
4-Methyl-2-pentanone	< 5.00	ug/L		10/16/2019 16:13
Acetone	< 10.0	ug/L		10/16/2019 16:13
Benzene	< 1.00	ug/L		10/16/2019 16:13
Bromochloromethane	< 5.00	ug/L		10/16/2019 16:13

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MWR-101
Lab Sample ID: 194905-05 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

Bromodichloromethane	< 2.00	ug/L	10/16/2019	16:13
Bromoform	< 5.00	ug/L	10/16/2019	16:13
Bromomethane	< 2.00	ug/L	10/16/2019	16:13
Carbon disulfide	< 2.00	ug/L	10/16/2019	16:13
Carbon Tetrachloride	< 2.00	ug/L	10/16/2019	16:13
Chlorobenzene	< 2.00	ug/L	10/16/2019	16:13
Chloroethane	< 2.00	ug/L	10/16/2019	16:13
Chloroform	< 2.00	ug/L	10/16/2019	16:13
Chloromethane	< 2.00	ug/L	10/16/2019	16:13
cis-1,2-Dichloroethene	< 2.00	ug/L	10/16/2019	16:13
cis-1,3-Dichloropropene	< 2.00	ug/L	10/16/2019	16:13
Cyclohexane	< 10.0	ug/L	10/16/2019	16:13
Dibromochloromethane	< 2.00	ug/L	10/16/2019	16:13
Dichlorodifluoromethane	< 2.00	ug/L	10/16/2019	16:13
Ethylbenzene	< 2.00	ug/L	10/16/2019	16:13
Freon 113	< 2.00	ug/L	10/16/2019	16:13
Isopropylbenzene	< 2.00	ug/L	10/16/2019	16:13
m,p-Xylene	< 2.00	ug/L	10/16/2019	16:13
Methyl acetate	< 2.00	ug/L	10/16/2019	16:13
Methyl tert-butyl Ether	< 2.00	ug/L	10/16/2019	16:13
Methylcyclohexane	< 2.00	ug/L	10/16/2019	16:13
Methylene chloride	< 5.00	ug/L	10/16/2019	16:13
Naphthalene	< 5.00	ug/L	10/16/2019	16:13
n-Butylbenzene	< 2.00	ug/L	10/16/2019	16:13
n-Propylbenzene	< 2.00	ug/L	10/16/2019	16:13

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MWR-101
Lab Sample ID: 194905-05 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

o-Xylene	< 2.00	ug/L	10/16/2019	16:13
p-Isopropyltoluene	< 2.00	ug/L	10/16/2019	16:13
sec-Butylbenzene	< 2.00	ug/L	10/16/2019	16:13
Styrene	< 5.00	ug/L	10/16/2019	16:13
tert-Butylbenzene	< 2.00	ug/L	10/16/2019	16:13
Tetrachloroethene	< 2.00	ug/L	10/16/2019	16:13
Toluene	< 2.00	ug/L	10/16/2019	16:13
trans-1,2-Dichloroethene	< 2.00	ug/L	10/16/2019	16:13
trans-1,3-Dichloropropene	< 2.00	ug/L	10/16/2019	16:13
Trichloroethene	< 2.00	ug/L	10/16/2019	16:13
Trichlorofluoromethane	< 2.00	ug/L	10/16/2019	16:13
Vinyl chloride	< 2.00	ug/L	10/16/2019	16:13

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**106**	70.5 - 135		10/16/2019	16:13
4-Bromofluorobenzene	**82.1**	62 - 127		10/16/2019	16:13
Pentafluorobenzene	**91.7**	87 - 113		10/16/2019	16:13
Toluene-D8	**91.8**	80.8 - 115		10/16/2019	16:13

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x65352.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MW-103		
Lab Sample ID:	194905-06	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.000278**	mg/L		10/9/2019 10:07

Method Reference(s): EPA 7470A
Preparation Date: 10/8/2019
Data File: Hg191009A

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MW-103		
Lab Sample ID:	194905-06	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**0.0948**	mg/L	J	10/9/2019 20:45
Antimony	< 0.0600	mg/L		10/9/2019 20:45
Arsenic	< 0.0100	mg/L		10/11/2019 16:16
Barium	**0.242**	mg/L		10/9/2019 20:45
Beryllium	< 0.00500	mg/L		10/9/2019 20:45
Cadmium	< 0.00500	mg/L		10/9/2019 20:45
Calcium	**127**	mg/L		10/9/2019 20:45
Chromium	< 0.0100	mg/L		10/9/2019 20:45
Cobalt	< 0.0500	mg/L		10/9/2019 20:45
Copper	**0.127**	mg/L		10/11/2019 16:16
Iron	**3.94**	mg/L		10/9/2019 20:45
Lead	**0.00796**	mg/L	J	10/9/2019 20:45
Magnesium	**28.6**	mg/L		10/9/2019 20:45
Manganese	**0.278**	mg/L		10/9/2019 20:45
Nickel	< 0.0400	mg/L		10/9/2019 20:45
Potassium	**8.66**	mg/L		10/9/2019 20:45
Selenium	< 0.0200	mg/L		10/11/2019 16:16
Silver	< 0.0100	mg/L		10/9/2019 20:45
Sodium	**134**	mg/L		10/9/2019 20:45
Thallium	< 0.0250	mg/L		10/11/2019 16:16
Vanadium	< 0.0250	mg/L		10/9/2019 20:45
Zinc	**0.235**	mg/L		10/9/2019 20:45

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MW-103		
Lab Sample ID:	194905-06	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

Method Reference(s):	EPA 6010C
	EPA 3005A
Preparation Date:	10/8/2019
Data File:	191009B

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Thursday, October 17, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MW-103
Lab Sample ID: 194905-06 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

Semi-Volatile Organics (Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 9.65	ug/L		10/9/2019 00:39
1,2,4,5-Tetrachlorobenzene	< 9.65	ug/L		10/9/2019 00:39
1,2,4-Trichlorobenzene	< 9.65	ug/L		10/9/2019 00:39
1,2-Dichlorobenzene	< 9.65	ug/L		10/9/2019 00:39
1,3-Dichlorobenzene	< 9.65	ug/L		10/9/2019 00:39
1,4-Dichlorobenzene	< 9.65	ug/L		10/9/2019 00:39
2,2-Oxybis (1-chloropropane)	< 9.65	ug/L		10/9/2019 00:39
2,4-Dinitrotoluene	< 9.65	ug/L		10/9/2019 00:39
2,6-Dinitrotoluene	< 9.65	ug/L		10/9/2019 00:39
2-Chloronaphthalene	< 9.65	ug/L		10/9/2019 00:39
2-Methylnapthalene	< 9.65	ug/L		10/9/2019 00:39
2-Nitroaniline	< 19.3	ug/L		10/9/2019 00:39
3,3'-Dichlorobenzidine	< 9.65	ug/L		10/9/2019 00:39
3-Nitroaniline	< 19.3	ug/L		10/9/2019 00:39
4-Bromophenyl phenyl ether	< 9.65	ug/L		10/9/2019 00:39
4-Chloroaniline	< 9.65	ug/L		10/9/2019 00:39
4-Chlorophenyl phenyl ether	< 9.65	ug/L		10/9/2019 00:39
4-Nitroaniline	< 19.3	ug/L		10/9/2019 00:39
Acenaphthene	< 9.65	ug/L		10/9/2019 00:39
Acenaphthylene	< 9.65	ug/L		10/9/2019 00:39
Acetophenone	< 9.65	ug/L		10/9/2019 00:39
Anthracene	< 9.65	ug/L		10/9/2019 00:39
Atrazine	< 9.65	ug/L		10/9/2019 00:39

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MW-103		
Lab Sample ID:	194905-06	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

Benzaldehyde	< 9.65	ug/L	10/9/2019	00:39
Benzo (a) anthracene	< 9.65	ug/L	10/9/2019	00:39
Benzo (a) pyrene	< 9.65	ug/L	10/9/2019	00:39
Benzo (b) fluoranthene	< 9.65	ug/L	10/9/2019	00:39
Benzo (g,h,i) perylene	< 9.65	ug/L	10/9/2019	00:39
Benzo (k) fluoranthene	< 9.65	ug/L	10/9/2019	00:39
Bis (2-chloroethoxy) methane	< 9.65	ug/L	10/9/2019	00:39
Bis (2-chloroethyl) ether	< 9.65	ug/L	10/9/2019	00:39
Bis (2-ethylhexyl) phthalate	< 9.65	ug/L	10/9/2019	00:39
Butylbenzylphthalate	< 9.65	ug/L	10/9/2019	00:39
Caprolactam	< 9.65	ug/L	10/9/2019	00:39
Carbazole	< 9.65	ug/L	10/9/2019	00:39
Chrysene	< 9.65	ug/L	10/9/2019	00:39
Dibenz (a,h) anthracene	< 9.65	ug/L	10/9/2019	00:39
Dibenzofuran	< 9.65	ug/L	10/9/2019	00:39
Diethyl phthalate	< 9.65	ug/L	10/9/2019	00:39
Dimethyl phthalate	< 19.3	ug/L	10/9/2019	00:39
Di-n-butyl phthalate	< 9.65	ug/L	10/9/2019	00:39
Di-n-octylphthalate	< 9.65	ug/L	10/9/2019	00:39
Fluoranthene	< 9.65	ug/L	10/9/2019	00:39
Fluorene	< 9.65	ug/L	10/9/2019	00:39
Hexachlorobenzene	< 9.65	ug/L	10/9/2019	00:39
Hexachlorobutadiene	< 9.65	ug/L	10/9/2019	00:39
Hexachlorocyclopentadiene	< 9.65	ug/L	10/9/2019	00:39
Hexachloroethane	< 9.65	ug/L	10/9/2019	00:39

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MW-103
Lab Sample ID: 194905-06 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

Indeno (1,2,3-cd) pyrene	< 9.65	ug/L	10/9/2019	00:39
Isophorone	< 9.65	ug/L	10/9/2019	00:39
Naphthalene	< 9.65	ug/L	10/9/2019	00:39
Nitrobenzene	< 9.65	ug/L	10/9/2019	00:39
N-Nitroso-di-n-propylamine	< 9.65	ug/L	10/9/2019	00:39
N-Nitrosodiphenylamine	< 9.65	ug/L	10/9/2019	00:39
Phenanthrene	< 9.65	ug/L	10/9/2019	00:39
Pyrene	< 9.65	ug/L	10/9/2019	00:39

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2-Fluorobiphenyl	**62.7**	36.3 - 95.4		10/9/2019	00:39
Nitrobenzene-d5	**74.9**	52.1 - 98.9		10/9/2019	00:39
Terphenyl-d14	**82.0**	59.6 - 112		10/9/2019	00:39

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 10/8/2019
Data File: B40637.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MW-103
Lab Sample ID: 194905-06 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		10/16/2019 15:51
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		10/16/2019 15:51
1,1,2-Trichloroethane	< 2.00	ug/L		10/16/2019 15:51
1,1-Dichloroethane	< 2.00	ug/L		10/16/2019 15:51
1,1-Dichloroethene	< 2.00	ug/L		10/16/2019 15:51
1,2,3-Trichlorobenzene	< 5.00	ug/L		10/16/2019 15:51
1,2,4-Trichlorobenzene	< 5.00	ug/L		10/16/2019 15:51
1,2,4-Trimethylbenzene	< 2.00	ug/L		10/16/2019 15:51
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		10/16/2019 15:51
1,2-Dibromoethane	< 2.00	ug/L		10/16/2019 15:51
1,2-Dichlorobenzene	< 2.00	ug/L		10/16/2019 15:51
1,2-Dichloroethane	< 2.00	ug/L		10/16/2019 15:51
1,2-Dichloropropane	< 2.00	ug/L		10/16/2019 15:51
1,3,5-Trimethylbenzene	< 2.00	ug/L		10/16/2019 15:51
1,3-Dichlorobenzene	< 2.00	ug/L		10/16/2019 15:51
1,4-Dichlorobenzene	< 2.00	ug/L		10/16/2019 15:51
1,4-Dioxane	< 20.0	ug/L		10/16/2019 15:51
2-Butanone	< 10.0	ug/L		10/16/2019 15:51
2-Hexanone	< 5.00	ug/L		10/16/2019 15:51
4-Methyl-2-pentanone	< 5.00	ug/L		10/16/2019 15:51
Acetone	< 10.0	ug/L		10/16/2019 15:51
Benzene	< 1.00	ug/L		10/16/2019 15:51
Bromochloromethane	< 5.00	ug/L		10/16/2019 15:51

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MW-103
Lab Sample ID: 194905-06 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

Bromodichloromethane	< 2.00	ug/L	10/16/2019	15:51
Bromoform	< 5.00	ug/L	10/16/2019	15:51
Bromomethane	< 2.00	ug/L	10/16/2019	15:51
Carbon disulfide	< 2.00	ug/L	10/16/2019	15:51
Carbon Tetrachloride	< 2.00	ug/L	10/16/2019	15:51
Chlorobenzene	< 2.00	ug/L	10/16/2019	15:51
Chloroethane	< 2.00	ug/L	10/16/2019	15:51
Chloroform	< 2.00	ug/L	10/16/2019	15:51
Chloromethane	< 2.00	ug/L	10/16/2019	15:51
cis-1,2-Dichloroethene	< 2.00	ug/L	10/16/2019	15:51
cis-1,3-Dichloropropene	< 2.00	ug/L	10/16/2019	15:51
Cyclohexane	< 10.0	ug/L	10/16/2019	15:51
Dibromochloromethane	< 2.00	ug/L	10/16/2019	15:51
Dichlorodifluoromethane	< 2.00	ug/L	10/16/2019	15:51
Ethylbenzene	< 2.00	ug/L	10/16/2019	15:51
Freon 113	< 2.00	ug/L	10/16/2019	15:51
Isopropylbenzene	< 2.00	ug/L	10/16/2019	15:51
m,p-Xylene	< 2.00	ug/L	10/16/2019	15:51
Methyl acetate	< 2.00	ug/L	10/16/2019	15:51
Methyl tert-butyl Ether	< 2.00	ug/L	10/16/2019	15:51
Methylcyclohexane	< 2.00	ug/L	10/16/2019	15:51
Methylene chloride	< 5.00	ug/L	10/16/2019	15:51
Naphthalene	< 5.00	ug/L	10/16/2019	15:51
n-Butylbenzene	< 2.00	ug/L	10/16/2019	15:51
n-Propylbenzene	< 2.00	ug/L	10/16/2019	15:51

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MW-103
Lab Sample ID: 194905-06 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

o-Xylene	< 2.00	ug/L	10/16/2019	15:51
p-Isopropyltoluene	< 2.00	ug/L	10/16/2019	15:51
sec-Butylbenzene	< 2.00	ug/L	10/16/2019	15:51
Styrene	< 5.00	ug/L	10/16/2019	15:51
tert-Butylbenzene	< 2.00	ug/L	10/16/2019	15:51
Tetrachloroethene	< 2.00	ug/L	10/16/2019	15:51
Toluene	< 2.00	ug/L	10/16/2019	15:51
trans-1,2-Dichloroethene	< 2.00	ug/L	10/16/2019	15:51
trans-1,3-Dichloropropene	< 2.00	ug/L	10/16/2019	15:51
Trichloroethene	< 2.00	ug/L	10/16/2019	15:51
Trichlorofluoromethane	< 2.00	ug/L	10/16/2019	15:51
Vinyl chloride	< 2.00	ug/L	10/16/2019	15:51

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**115**	70.5 - 135		10/16/2019	15:51
4-Bromofluorobenzene	**85.8**	62 - 127		10/16/2019	15:51
Pentafluorobenzene	**95.8**	87 - 113		10/16/2019	15:51
Toluene-D8	**97.4**	80.8 - 115		10/16/2019	15:51

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x65351.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MW-105		
Lab Sample ID:	194905-07	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		10/9/2019 09:16

Method Reference(s): EPA 7470A
Preparation Date: 10/8/2019
Data File: Hg191009A

Report Prepared Thursday, October 17, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MW-105		
Lab Sample ID:	194905-07	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**0.387**	mg/L		10/9/2019 20:49
Antimony	< 0.0600	mg/L		10/9/2019 20:49
Arsenic	< 0.0100	mg/L		10/11/2019 16:21
Barium	< 0.100	mg/L		10/9/2019 20:49
Beryllium	< 0.00500	mg/L		10/9/2019 20:49
Cadmium	< 0.00500	mg/L		10/9/2019 20:49
Calcium	**110**	mg/L		10/9/2019 20:49
Chromium	< 0.0100	mg/L		10/9/2019 20:49
Cobalt	< 0.0500	mg/L		10/9/2019 20:49
Copper	< 0.0400	mg/L		10/11/2019 16:21
Iron	**1.01**	mg/L		10/9/2019 20:49
Lead	< 0.0100	mg/L		10/9/2019 20:49
Magnesium	**106**	mg/L		10/9/2019 20:49
Manganese	**0.0793**	mg/L		10/9/2019 20:49
Nickel	< 0.0400	mg/L		10/9/2019 20:49
Potassium	**9.97**	mg/L		10/9/2019 20:49
Selenium	< 0.0200	mg/L		10/11/2019 16:21
Silver	< 0.0100	mg/L		10/9/2019 20:49
Sodium	**87.3**	mg/L		10/9/2019 20:49
Thallium	< 0.0250	mg/L		10/11/2019 16:21
Vanadium	< 0.0250	mg/L		10/9/2019 20:49
Zinc	< 0.0600	mg/L		10/9/2019 20:49

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MW-105		
Lab Sample ID:	194905-07	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

Method Reference(s):	EPA 6010C
	EPA 3005A
Preparation Date:	10/8/2019
Data File:	191009B

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Report Prepared Thursday, October 17, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MW-105		
Lab Sample ID:	194905-07	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

Semi-Volatile Organics (Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		10/9/2019 01:08
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		10/9/2019 01:08
1,2,4-Trichlorobenzene	< 10.0	ug/L		10/9/2019 01:08
1,2-Dichlorobenzene	< 10.0	ug/L		10/9/2019 01:08
1,3-Dichlorobenzene	< 10.0	ug/L		10/9/2019 01:08
1,4-Dichlorobenzene	< 10.0	ug/L		10/9/2019 01:08
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		10/9/2019 01:08
2,4-Dinitrotoluene	< 10.0	ug/L		10/9/2019 01:08
2,6-Dinitrotoluene	< 10.0	ug/L		10/9/2019 01:08
2-Chloronaphthalene	< 10.0	ug/L		10/9/2019 01:08
2-Methylnapthalene	< 10.0	ug/L		10/9/2019 01:08
2-Nitroaniline	< 20.0	ug/L		10/9/2019 01:08
3,3'-Dichlorobenzidine	< 10.0	ug/L		10/9/2019 01:08
3-Nitroaniline	< 20.0	ug/L		10/9/2019 01:08
4-Bromophenyl phenyl ether	< 10.0	ug/L		10/9/2019 01:08
4-Chloroaniline	< 10.0	ug/L		10/9/2019 01:08
4-Chlorophenyl phenyl ether	< 10.0	ug/L		10/9/2019 01:08
4-Nitroaniline	< 20.0	ug/L		10/9/2019 01:08
Acenaphthene	< 10.0	ug/L		10/9/2019 01:08
Acenaphthylene	< 10.0	ug/L		10/9/2019 01:08
Acetophenone	< 10.0	ug/L		10/9/2019 01:08
Anthracene	< 10.0	ug/L		10/9/2019 01:08
Atrazine	< 10.0	ug/L		10/9/2019 01:08

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MW-105		
Lab Sample ID:	194905-07	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

Benzaldehyde	< 10.0	ug/L	10/9/2019	01:08
Benzo (a) anthracene	< 10.0	ug/L	10/9/2019	01:08
Benzo (a) pyrene	< 10.0	ug/L	10/9/2019	01:08
Benzo (b) fluoranthene	< 10.0	ug/L	10/9/2019	01:08
Benzo (g,h,i) perylene	< 10.0	ug/L	10/9/2019	01:08
Benzo (k) fluoranthene	< 10.0	ug/L	10/9/2019	01:08
Bis (2-chloroethoxy) methane	< 10.0	ug/L	10/9/2019	01:08
Bis (2-chloroethyl) ether	< 10.0	ug/L	10/9/2019	01:08
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	10/9/2019	01:08
Butylbenzylphthalate	< 10.0	ug/L	10/9/2019	01:08
Caprolactam	< 10.0	ug/L	10/9/2019	01:08
Carbazole	< 10.0	ug/L	10/9/2019	01:08
Chrysene	< 10.0	ug/L	10/9/2019	01:08
Dibenz (a,h) anthracene	< 10.0	ug/L	10/9/2019	01:08
Dibenzofuran	< 10.0	ug/L	10/9/2019	01:08
Diethyl phthalate	< 10.0	ug/L	10/9/2019	01:08
Dimethyl phthalate	< 20.0	ug/L	10/9/2019	01:08
Di-n-butyl phthalate	< 10.0	ug/L	10/9/2019	01:08
Di-n-octylphthalate	< 10.0	ug/L	10/9/2019	01:08
Fluoranthene	< 10.0	ug/L	10/9/2019	01:08
Fluorene	< 10.0	ug/L	10/9/2019	01:08
Hexachlorobenzene	< 10.0	ug/L	10/9/2019	01:08
Hexachlorobutadiene	< 10.0	ug/L	10/9/2019	01:08
Hexachlorocyclopentadiene	< 10.0	ug/L	10/9/2019	01:08
Hexachloroethane	< 10.0	ug/L	10/9/2019	01:08

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MW-105
Lab Sample ID: 194905-07 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	10/9/2019	01:08
Isophorone	< 10.0	ug/L	10/9/2019	01:08
Naphthalene	< 10.0	ug/L	10/9/2019	01:08
Nitrobenzene	< 10.0	ug/L	10/9/2019	01:08
N-Nitroso-di-n-propylamine	< 10.0	ug/L	10/9/2019	01:08
N-Nitrosodiphenylamine	< 10.0	ug/L	10/9/2019	01:08
Phenanthrene	< 10.0	ug/L	10/9/2019	01:08
Pyrene	< 10.0	ug/L	10/9/2019	01:08

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2-Fluorobiphenyl	**49.0**	36.3 - 95.4		10/9/2019	01:08
Nitrobenzene-d5	**72.5**	52.1 - 98.9		10/9/2019	01:08
Terphenyl-d14	**75.7**	59.6 - 112		10/9/2019	01:08

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 10/8/2019
Data File: B40638.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MW-105
Lab Sample ID: 194905-07 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		10/16/2019 15:29
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		10/16/2019 15:29
1,1,2-Trichloroethane	< 2.00	ug/L		10/16/2019 15:29
1,1-Dichloroethane	< 2.00	ug/L		10/16/2019 15:29
1,1-Dichloroethene	< 2.00	ug/L		10/16/2019 15:29
1,2,3-Trichlorobenzene	< 5.00	ug/L		10/16/2019 15:29
1,2,4-Trichlorobenzene	< 5.00	ug/L		10/16/2019 15:29
1,2,4-Trimethylbenzene	< 2.00	ug/L		10/16/2019 15:29
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		10/16/2019 15:29
1,2-Dibromoethane	< 2.00	ug/L		10/16/2019 15:29
1,2-Dichlorobenzene	< 2.00	ug/L		10/16/2019 15:29
1,2-Dichloroethane	< 2.00	ug/L		10/16/2019 15:29
1,2-Dichloropropane	< 2.00	ug/L		10/16/2019 15:29
1,3,5-Trimethylbenzene	< 2.00	ug/L		10/16/2019 15:29
1,3-Dichlorobenzene	< 2.00	ug/L		10/16/2019 15:29
1,4-Dichlorobenzene	< 2.00	ug/L		10/16/2019 15:29
1,4-Dioxane	< 20.0	ug/L		10/16/2019 15:29
2-Butanone	< 10.0	ug/L		10/16/2019 15:29
2-Hexanone	< 5.00	ug/L		10/16/2019 15:29
4-Methyl-2-pentanone	< 5.00	ug/L		10/16/2019 15:29
Acetone	< 10.0	ug/L		10/16/2019 15:29
Benzene	< 1.00	ug/L		10/16/2019 15:29
Bromochloromethane	< 5.00	ug/L		10/16/2019 15:29

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MW-105
Lab Sample ID: 194905-07 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

Bromodichloromethane	< 2.00	ug/L	10/16/2019	15:29
Bromoform	< 5.00	ug/L	10/16/2019	15:29
Bromomethane	< 2.00	ug/L	10/16/2019	15:29
Carbon disulfide	< 2.00	ug/L	10/16/2019	15:29
Carbon Tetrachloride	< 2.00	ug/L	10/16/2019	15:29
Chlorobenzene	< 2.00	ug/L	10/16/2019	15:29
Chloroethane	< 2.00	ug/L	10/16/2019	15:29
Chloroform	< 2.00	ug/L	10/16/2019	15:29
Chloromethane	< 2.00	ug/L	10/16/2019	15:29
cis-1,2-Dichloroethene	< 2.00	ug/L	10/16/2019	15:29
cis-1,3-Dichloropropene	< 2.00	ug/L	10/16/2019	15:29
Cyclohexane	< 10.0	ug/L	10/16/2019	15:29
Dibromochloromethane	< 2.00	ug/L	10/16/2019	15:29
Dichlorodifluoromethane	< 2.00	ug/L	10/16/2019	15:29
Ethylbenzene	< 2.00	ug/L	10/16/2019	15:29
Freon 113	< 2.00	ug/L	10/16/2019	15:29
Isopropylbenzene	< 2.00	ug/L	10/16/2019	15:29
m,p-Xylene	< 2.00	ug/L	10/16/2019	15:29
Methyl acetate	< 2.00	ug/L	10/16/2019	15:29
Methyl tert-butyl Ether	< 2.00	ug/L	10/16/2019	15:29
Methylcyclohexane	< 2.00	ug/L	10/16/2019	15:29
Methylene chloride	< 5.00	ug/L	10/16/2019	15:29
Naphthalene	< 5.00	ug/L	10/16/2019	15:29
n-Butylbenzene	< 2.00	ug/L	10/16/2019	15:29
n-Propylbenzene	< 2.00	ug/L	10/16/2019	15:29

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MW-105
Lab Sample ID: 194905-07 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

o-Xylene	< 2.00	ug/L	10/16/2019	15:29
p-Isopropyltoluene	< 2.00	ug/L	10/16/2019	15:29
sec-Butylbenzene	< 2.00	ug/L	10/16/2019	15:29
Styrene	< 5.00	ug/L	10/16/2019	15:29
tert-Butylbenzene	< 2.00	ug/L	10/16/2019	15:29
Tetrachloroethene	< 2.00	ug/L	10/16/2019	15:29
Toluene	< 2.00	ug/L	10/16/2019	15:29
trans-1,2-Dichloroethene	< 2.00	ug/L	10/16/2019	15:29
trans-1,3-Dichloropropene	< 2.00	ug/L	10/16/2019	15:29
Trichloroethene	< 2.00	ug/L	10/16/2019	15:29
Trichlorofluoromethane	< 2.00	ug/L	10/16/2019	15:29
Vinyl chloride	< 2.00	ug/L	10/16/2019	15:29

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**110**	70.5 - 135		10/16/2019	15:29
4-Bromofluorobenzene	**85.1**	62 - 127		10/16/2019	15:29
Pentafluorobenzene	**96.5**	87 - 113		10/16/2019	15:29
Toluene-D8	**93.7**	80.8 - 115		10/16/2019	15:29

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x65350.D

Report Prepared Thursday, October 17, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MW-106		
Lab Sample ID:	194905-08	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		10/9/2019 09:18

Method Reference(s): EPA 7470A
Preparation Date: 10/8/2019
Data File: Hg191009A

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MW-106		
Lab Sample ID:	194905-08	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**0.860**	mg/L		10/9/2019 20:53
Antimony	< 0.0600	mg/L		10/9/2019 20:53
Arsenic	< 0.0100	mg/L		10/11/2019 16:25
Barium	**0.152**	mg/L		10/9/2019 20:53
Beryllium	< 0.00500	mg/L		10/9/2019 20:53
Cadmium	< 0.00500	mg/L		10/9/2019 20:53
Calcium	**116**	mg/L		10/9/2019 20:53
Chromium	< 0.0100	mg/L		10/9/2019 20:53
Cobalt	< 0.0500	mg/L		10/9/2019 20:53
Copper	< 0.0400	mg/L		10/11/2019 16:25
Iron	**3.74**	mg/L		10/9/2019 20:53
Lead	**0.0149**	mg/L		10/9/2019 20:53
Magnesium	**30.7**	mg/L		10/9/2019 20:53
Manganese	**0.405**	mg/L		10/9/2019 20:53
Nickel	< 0.0400	mg/L		10/9/2019 20:53
Potassium	**5.80**	mg/L		10/9/2019 20:53
Selenium	< 0.0200	mg/L		10/11/2019 16:25
Silver	< 0.0100	mg/L		10/9/2019 20:53
Sodium	**109**	mg/L		10/9/2019 20:53
Thallium	< 0.0250	mg/L		10/9/2019 20:53
Vanadium	< 0.0250	mg/L		10/9/2019 20:53
Zinc	**1.80**	mg/L		10/9/2019 20:53

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MW-106		
Lab Sample ID:	194905-08	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

Method Reference(s):	EPA 6010C
	EPA 3005A
Preparation Date:	10/8/2019
Data File:	191009B

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Thursday, October 17, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MW-106		
Lab Sample ID:	194905-08	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

Semi-Volatile Organics (Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		10/9/2019 01:37
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		10/9/2019 01:37
1,2,4-Trichlorobenzene	< 10.0	ug/L		10/9/2019 01:37
1,2-Dichlorobenzene	< 10.0	ug/L		10/9/2019 01:37
1,3-Dichlorobenzene	< 10.0	ug/L		10/9/2019 01:37
1,4-Dichlorobenzene	< 10.0	ug/L		10/9/2019 01:37
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		10/9/2019 01:37
2,4-Dinitrotoluene	< 10.0	ug/L		10/9/2019 01:37
2,6-Dinitrotoluene	< 10.0	ug/L		10/9/2019 01:37
2-Chloronaphthalene	< 10.0	ug/L		10/9/2019 01:37
2-Methylnapthalene	< 10.0	ug/L		10/9/2019 01:37
2-Nitroaniline	< 20.0	ug/L		10/9/2019 01:37
3,3'-Dichlorobenzidine	< 10.0	ug/L		10/9/2019 01:37
3-Nitroaniline	< 20.0	ug/L		10/9/2019 01:37
4-Bromophenyl phenyl ether	< 10.0	ug/L		10/9/2019 01:37
4-Chloroaniline	< 10.0	ug/L		10/9/2019 01:37
4-Chlorophenyl phenyl ether	< 10.0	ug/L		10/9/2019 01:37
4-Nitroaniline	< 20.0	ug/L		10/9/2019 01:37
Acenaphthene	< 10.0	ug/L		10/9/2019 01:37
Acenaphthylene	< 10.0	ug/L		10/9/2019 01:37
Acetophenone	< 10.0	ug/L		10/9/2019 01:37
Anthracene	< 10.0	ug/L		10/9/2019 01:37
Atrazine	< 10.0	ug/L		10/9/2019 01:37

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MW-106		
Lab Sample ID:	194905-08	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

Benzaldehyde	< 10.0	ug/L	10/9/2019	01:37
Benzo (a) anthracene	< 10.0	ug/L	10/9/2019	01:37
Benzo (a) pyrene	< 10.0	ug/L	10/9/2019	01:37
Benzo (b) fluoranthene	< 10.0	ug/L	10/9/2019	01:37
Benzo (g,h,i) perylene	< 10.0	ug/L	10/9/2019	01:37
Benzo (k) fluoranthene	< 10.0	ug/L	10/9/2019	01:37
Bis (2-chloroethoxy) methane	< 10.0	ug/L	10/9/2019	01:37
Bis (2-chloroethyl) ether	< 10.0	ug/L	10/9/2019	01:37
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	10/9/2019	01:37
Butylbenzylphthalate	< 10.0	ug/L	10/9/2019	01:37
Caprolactam	< 10.0	ug/L	10/9/2019	01:37
Carbazole	< 10.0	ug/L	10/9/2019	01:37
Chrysene	< 10.0	ug/L	10/9/2019	01:37
Dibenz (a,h) anthracene	< 10.0	ug/L	10/9/2019	01:37
Dibenzofuran	< 10.0	ug/L	10/9/2019	01:37
Diethyl phthalate	< 10.0	ug/L	10/9/2019	01:37
Dimethyl phthalate	< 20.0	ug/L	10/9/2019	01:37
Di-n-butyl phthalate	< 10.0	ug/L	10/9/2019	01:37
Di-n-octylphthalate	< 10.0	ug/L	10/9/2019	01:37
Fluoranthene	< 10.0	ug/L	10/9/2019	01:37
Fluorene	< 10.0	ug/L	10/9/2019	01:37
Hexachlorobenzene	< 10.0	ug/L	10/9/2019	01:37
Hexachlorobutadiene	< 10.0	ug/L	10/9/2019	01:37
Hexachlorocyclopentadiene	< 10.0	ug/L	10/9/2019	01:37
Hexachloroethane	< 10.0	ug/L	10/9/2019	01:37

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MW-106
Lab Sample ID: 194905-08 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	10/9/2019	01:37
Isophorone	< 10.0	ug/L	10/9/2019	01:37
Naphthalene	< 10.0	ug/L	10/9/2019	01:37
Nitrobenzene	< 10.0	ug/L	10/9/2019	01:37
N-Nitroso-di-n-propylamine	< 10.0	ug/L	10/9/2019	01:37
N-Nitrosodiphenylamine	< 10.0	ug/L	10/9/2019	01:37
Phenanthrene	< 10.0	ug/L	10/9/2019	01:37
Pyrene	< 10.0	ug/L	10/9/2019	01:37

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2-Fluorobiphenyl	**49.3**	36.3 - 95.4		10/9/2019	01:37
Nitrobenzene-d5	**68.5**	52.1 - 98.9		10/9/2019	01:37
Terphenyl-d14	**77.5**	59.6 - 112		10/9/2019	01:37

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 10/8/2019
Data File: B40639.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MW-106
Lab Sample ID: 194905-08 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		10/16/2019 15:07
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		10/16/2019 15:07
1,1,2-Trichloroethane	< 2.00	ug/L		10/16/2019 15:07
1,1-Dichloroethane	< 2.00	ug/L		10/16/2019 15:07
1,1-Dichloroethene	< 2.00	ug/L		10/16/2019 15:07
1,2,3-Trichlorobenzene	< 5.00	ug/L		10/16/2019 15:07
1,2,4-Trichlorobenzene	< 5.00	ug/L		10/16/2019 15:07
1,2,4-Trimethylbenzene	< 2.00	ug/L		10/16/2019 15:07
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		10/16/2019 15:07
1,2-Dibromoethane	< 2.00	ug/L		10/16/2019 15:07
1,2-Dichlorobenzene	< 2.00	ug/L		10/16/2019 15:07
1,2-Dichloroethane	< 2.00	ug/L		10/16/2019 15:07
1,2-Dichloropropane	< 2.00	ug/L		10/16/2019 15:07
1,3,5-Trimethylbenzene	< 2.00	ug/L		10/16/2019 15:07
1,3-Dichlorobenzene	< 2.00	ug/L		10/16/2019 15:07
1,4-Dichlorobenzene	< 2.00	ug/L		10/16/2019 15:07
1,4-Dioxane	< 20.0	ug/L		10/16/2019 15:07
2-Butanone	< 10.0	ug/L		10/16/2019 15:07
2-Hexanone	< 5.00	ug/L		10/16/2019 15:07
4-Methyl-2-pentanone	< 5.00	ug/L		10/16/2019 15:07
Acetone	< 10.0	ug/L		10/16/2019 15:07
Benzene	< 1.00	ug/L		10/16/2019 15:07
Bromochloromethane	< 5.00	ug/L		10/16/2019 15:07

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MW-106		
Lab Sample ID:	194905-08	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

Bromodichloromethane	< 2.00	ug/L	10/16/2019	15:07
Bromoform	< 5.00	ug/L	10/16/2019	15:07
Bromomethane	< 2.00	ug/L	10/16/2019	15:07
Carbon disulfide	< 2.00	ug/L	10/16/2019	15:07
Carbon Tetrachloride	< 2.00	ug/L	10/16/2019	15:07
Chlorobenzene	**7.35**	ug/L	10/16/2019	15:07
Chloroethane	< 2.00	ug/L	10/16/2019	15:07
Chloroform	< 2.00	ug/L	10/16/2019	15:07
Chloromethane	< 2.00	ug/L	10/16/2019	15:07
cis-1,2-Dichloroethene	< 2.00	ug/L	10/16/2019	15:07
cis-1,3-Dichloropropene	< 2.00	ug/L	10/16/2019	15:07
Cyclohexane	< 10.0	ug/L	10/16/2019	15:07
Dibromochloromethane	< 2.00	ug/L	10/16/2019	15:07
Dichlorodifluoromethane	< 2.00	ug/L	10/16/2019	15:07
Ethylbenzene	< 2.00	ug/L	10/16/2019	15:07
Freon 113	< 2.00	ug/L	10/16/2019	15:07
Isopropylbenzene	< 2.00	ug/L	10/16/2019	15:07
m,p-Xylene	< 2.00	ug/L	10/16/2019	15:07
Methyl acetate	< 2.00	ug/L	10/16/2019	15:07
Methyl tert-butyl Ether	< 2.00	ug/L	10/16/2019	15:07
Methylcyclohexane	< 2.00	ug/L	10/16/2019	15:07
Methylene chloride	< 5.00	ug/L	10/16/2019	15:07
Naphthalene	< 5.00	ug/L	10/16/2019	15:07
n-Butylbenzene	< 2.00	ug/L	10/16/2019	15:07
n-Propylbenzene	< 2.00	ug/L	10/16/2019	15:07

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MW-106
Lab Sample ID: 194905-08 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

o-Xylene	< 2.00	ug/L	10/16/2019	15:07
p-Isopropyltoluene	< 2.00	ug/L	10/16/2019	15:07
sec-Butylbenzene	< 2.00	ug/L	10/16/2019	15:07
Styrene	< 5.00	ug/L	10/16/2019	15:07
tert-Butylbenzene	< 2.00	ug/L	10/16/2019	15:07
Tetrachloroethene	< 2.00	ug/L	10/16/2019	15:07
Toluene	< 2.00	ug/L	10/16/2019	15:07
trans-1,2-Dichloroethene	< 2.00	ug/L	10/16/2019	15:07
trans-1,3-Dichloropropene	< 2.00	ug/L	10/16/2019	15:07
Trichloroethene	< 2.00	ug/L	10/16/2019	15:07
Trichlorofluoromethane	< 2.00	ug/L	10/16/2019	15:07
Vinyl chloride	< 2.00	ug/L	10/16/2019	15:07

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**113**	70.5 - 135		10/16/2019	15:07
4-Bromofluorobenzene	**87.2**	62 - 127		10/16/2019	15:07
Pentafluorobenzene	**94.9**	87 - 113		10/16/2019	15:07
Toluene-D8	**94.4**	80.8 - 115		10/16/2019	15:07

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x65349.D

Report Prepared Thursday, October 17, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MW-107		
Lab Sample ID:	194905-09	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		10/9/2019 09:20

Method Reference(s): EPA 7470A
Preparation Date: 10/8/2019
Data File: Hg191009A

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Thursday, October 17, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MW-107		
Lab Sample ID:	194905-09	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	< 0.100	mg/L		10/9/2019 21:07
Antimony	< 0.0600	mg/L		10/9/2019 21:07
Arsenic	< 0.0100	mg/L		10/11/2019 15:19
Barium	**0.0819**	mg/L	J	10/9/2019 21:07
Beryllium	< 0.00500	mg/L		10/9/2019 21:07
Cadmium	< 0.00500	mg/L		10/9/2019 21:07
Calcium	**186**	mg/L		10/9/2019 21:07
Chromium	< 0.0100	mg/L		10/9/2019 21:07
Cobalt	< 0.0500	mg/L		10/9/2019 21:07
Copper	< 0.0400	mg/L		10/11/2019 15:19
Iron	**3.30**	mg/L		10/9/2019 21:07
Lead	< 0.0100	mg/L		10/9/2019 21:07
Magnesium	**33.4**	mg/L		10/9/2019 21:07
Manganese	**0.360**	mg/L		10/9/2019 21:07
Nickel	< 0.0400	mg/L		10/9/2019 21:07
Potassium	**7.21**	mg/L		10/9/2019 21:07
Selenium	< 0.0200	mg/L		10/11/2019 15:19
Silver	< 0.0100	mg/L		10/9/2019 21:07
Sodium	**63.1**	mg/L	M	10/9/2019 21:07
Thallium	< 0.0250	mg/L		10/9/2019 21:07
Vanadium	< 0.0250	mg/L		10/9/2019 21:07
Zinc	**0.0513**	mg/L	J	10/9/2019 21:07

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MW-107		
Lab Sample ID:	194905-09	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

Method Reference(s):	EPA 6010C
	EPA 3005A
Preparation Date:	10/8/2019
Data File:	191009B

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Report Prepared Thursday, October 17, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MW-107
Lab Sample ID: 194905-09 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

Semi-Volatile Organics (Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		10/10/2019 05:50
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		10/10/2019 05:50
1,2,4-Trichlorobenzene	< 10.0	ug/L		10/10/2019 05:50
1,2-Dichlorobenzene	< 10.0	ug/L		10/10/2019 05:50
1,3-Dichlorobenzene	< 10.0	ug/L		10/10/2019 05:50
1,4-Dichlorobenzene	< 10.0	ug/L		10/10/2019 05:50
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		10/10/2019 05:50
2,4-Dinitrotoluene	< 10.0	ug/L		10/10/2019 05:50
2,6-Dinitrotoluene	< 10.0	ug/L		10/10/2019 05:50
2-Chloronaphthalene	< 10.0	ug/L		10/10/2019 05:50
2-Methylnapthalene	< 10.0	ug/L		10/10/2019 05:50
2-Nitroaniline	< 20.0	ug/L		10/10/2019 05:50
3,3'-Dichlorobenzidine	< 10.0	ug/L		10/10/2019 05:50
3-Nitroaniline	< 20.0	ug/L		10/10/2019 05:50
4-Bromophenyl phenyl ether	< 10.0	ug/L		10/10/2019 05:50
4-Chloroaniline	< 10.0	ug/L		10/10/2019 05:50
4-Chlorophenyl phenyl ether	< 10.0	ug/L		10/10/2019 05:50
4-Nitroaniline	< 20.0	ug/L		10/10/2019 05:50
Acenaphthene	< 10.0	ug/L		10/10/2019 05:50
Acenaphthylene	< 10.0	ug/L		10/10/2019 05:50
Acetophenone	< 10.0	ug/L		10/10/2019 05:50
Anthracene	< 10.0	ug/L		10/10/2019 05:50
Atrazine	< 10.0	ug/L		10/10/2019 05:50

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	MW-107		
Lab Sample ID:	194905-09	**Date Sampled:**	10/4/2019
Matrix:	Groundwater	**Date Received:**	10/7/2019

Benzaldehyde	< 10.0	ug/L	10/10/2019	05:50
Benzo (a) anthracene	< 10.0	ug/L	10/10/2019	05:50
Benzo (a) pyrene	< 10.0	ug/L	10/10/2019	05:50
Benzo (b) fluoranthene	< 10.0	ug/L	10/10/2019	05:50
Benzo (g,h,i) perylene	< 10.0	ug/L	10/10/2019	05:50
Benzo (k) fluoranthene	< 10.0	ug/L	10/10/2019	05:50
Bis (2-chloroethoxy) methane	< 10.0	ug/L	10/10/2019	05:50
Bis (2-chloroethyl) ether	< 10.0	ug/L	10/10/2019	05:50
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	10/10/2019	05:50
Butylbenzylphthalate	< 10.0	ug/L	10/10/2019	05:50
Caprolactam	< 10.0	ug/L	10/10/2019	05:50
Carbazole	< 10.0	ug/L	10/10/2019	05:50
Chrysene	< 10.0	ug/L	10/10/2019	05:50
Dibenz (a,h) anthracene	< 10.0	ug/L	10/10/2019	05:50
Dibenzofuran	< 10.0	ug/L	10/10/2019	05:50
Diethyl phthalate	< 10.0	ug/L	10/10/2019	05:50
Dimethyl phthalate	< 20.0	ug/L	10/10/2019	05:50
Di-n-butyl phthalate	< 10.0	ug/L	10/10/2019	05:50
Di-n-octylphthalate	< 10.0	ug/L	10/10/2019	05:50
Fluoranthene	< 10.0	ug/L	10/10/2019	05:50
Fluorene	< 10.0	ug/L	10/10/2019	05:50
Hexachlorobenzene	< 10.0	ug/L	10/10/2019	05:50
Hexachlorobutadiene	< 10.0	ug/L	10/10/2019	05:50
Hexachlorocyclopentadiene	< 10.0	ug/L	10/10/2019	05:50
Hexachloroethane	< 10.0	ug/L	10/10/2019	05:50

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MW-107
Lab Sample ID: 194905-09 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	10/10/2019	05:50
Isophorone	< 10.0	ug/L	10/10/2019	05:50
Naphthalene	< 10.0	ug/L	10/10/2019	05:50
Nitrobenzene	< 10.0	ug/L	10/10/2019	05:50
N-Nitroso-di-n-propylamine	< 10.0	ug/L	10/10/2019	05:50
N-Nitrosodiphenylamine	< 10.0	ug/L	10/10/2019	05:50
Phenanthrene	< 10.0	ug/L	10/10/2019	05:50
Pyrene	< 10.0	ug/L	10/10/2019	05:50

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2-Fluorobiphenyl	**52.7**	36.3 - 95.4		10/10/2019	05:50
Nitrobenzene-d5	**64.2**	52.1 - 98.9		10/10/2019	05:50
Terphenyl-d14	**71.1**	59.6 - 112		10/10/2019	05:50

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 10/8/2019
Data File: B41367.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MW-107
Lab Sample ID: 194905-09 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		10/16/2019 14:44
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		10/16/2019 14:44
1,1,2-Trichloroethane	< 2.00	ug/L		10/16/2019 14:44
1,1-Dichloroethane	< 2.00	ug/L		10/16/2019 14:44
1,1-Dichloroethene	< 2.00	ug/L		10/16/2019 14:44
1,2,3-Trichlorobenzene	< 5.00	ug/L		10/16/2019 14:44
1,2,4-Trichlorobenzene	< 5.00	ug/L		10/16/2019 14:44
1,2,4-Trimethylbenzene	< 2.00	ug/L		10/16/2019 14:44
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		10/16/2019 14:44
1,2-Dibromoethane	< 2.00	ug/L		10/16/2019 14:44
1,2-Dichlorobenzene	< 2.00	ug/L		10/16/2019 14:44
1,2-Dichloroethane	< 2.00	ug/L		10/16/2019 14:44
1,2-Dichloropropane	< 2.00	ug/L		10/16/2019 14:44
1,3,5-Trimethylbenzene	< 2.00	ug/L		10/16/2019 14:44
1,3-Dichlorobenzene	< 2.00	ug/L		10/16/2019 14:44
1,4-Dichlorobenzene	< 2.00	ug/L		10/16/2019 14:44
1,4-Dioxane	< 20.0	ug/L		10/16/2019 14:44
2-Butanone	< 10.0	ug/L		10/16/2019 14:44
2-Hexanone	< 5.00	ug/L		10/16/2019 14:44
4-Methyl-2-pentanone	< 5.00	ug/L		10/16/2019 14:44
Acetone	< 10.0	ug/L		10/16/2019 14:44
Benzene	< 1.00	ug/L		10/16/2019 14:44
Bromochloromethane	< 5.00	ug/L		10/16/2019 14:44

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MW-107
Lab Sample ID: 194905-09 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

Bromodichloromethane	< 2.00	ug/L		10/16/2019	14:44
Bromoform	< 5.00	ug/L		10/16/2019	14:44
Bromomethane	< 2.00	ug/L		10/16/2019	14:44
Carbon disulfide	< 2.00	ug/L		10/16/2019	14:44
Carbon Tetrachloride	< 2.00	ug/L		10/16/2019	14:44
Chlorobenzene	< 2.00	ug/L		10/16/2019	14:44
Chloroethane	< 2.00	ug/L		10/16/2019	14:44
Chloroform	< 2.00	ug/L		10/16/2019	14:44
Chloromethane	< 2.00	ug/L		10/16/2019	14:44
cis-1,2-Dichloroethene	< 2.00	ug/L		10/16/2019	14:44
cis-1,3-Dichloropropene	< 2.00	ug/L		10/16/2019	14:44
Cyclohexane	< 10.0	ug/L		10/16/2019	14:44
Dibromochloromethane	< 2.00	ug/L		10/16/2019	14:44
Dichlorodifluoromethane	< 2.00	ug/L		10/16/2019	14:44
Ethylbenzene	< 2.00	ug/L		10/16/2019	14:44
Freon 113	< 2.00	ug/L		10/16/2019	14:44
Isopropylbenzene	< 2.00	ug/L		10/16/2019	14:44
m,p-Xylene	< 2.00	ug/L		10/16/2019	14:44
Methyl acetate	< 2.00	ug/L		10/16/2019	14:44
Methyl tert-butyl Ether	< 2.00	ug/L		10/16/2019	14:44
Methylcyclohexane	< 2.00	ug/L		10/16/2019	14:44
Methylene chloride	**3.12**	ug/L	J	10/16/2019	14:44
Naphthalene	< 5.00	ug/L		10/16/2019	14:44
n-Butylbenzene	< 2.00	ug/L		10/16/2019	14:44
n-Propylbenzene	< 2.00	ug/L		10/16/2019	14:44

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: MW-107
Lab Sample ID: 194905-09 **Date Sampled:** 10/4/2019
Matrix: Groundwater **Date Received:** 10/7/2019

o-Xylene	< 2.00	ug/L	10/16/2019	14:44
p-Isopropyltoluene	< 2.00	ug/L	10/16/2019	14:44
sec-Butylbenzene	< 2.00	ug/L	10/16/2019	14:44
Styrene	< 5.00	ug/L	10/16/2019	14:44
tert-Butylbenzene	< 2.00	ug/L	10/16/2019	14:44
Tetrachloroethene	< 2.00	ug/L	10/16/2019	14:44
Toluene	< 2.00	ug/L	10/16/2019	14:44
trans-1,2-Dichloroethene	< 2.00	ug/L	10/16/2019	14:44
trans-1,3-Dichloropropene	< 2.00	ug/L	10/16/2019	14:44
Trichloroethene	< 2.00	ug/L	10/16/2019	14:44
Trichlorofluoromethane	< 2.00	ug/L	10/16/2019	14:44
Vinyl chloride	< 2.00	ug/L	10/16/2019	14:44

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**109**	70.5 - 135		10/16/2019	14:44
4-Bromofluorobenzene	**84.1**	62 - 127		10/16/2019	14:44
Pentafluorobenzene	**93.8**	87 - 113		10/16/2019	14:44
Toluene-D8	**97.5**	80.8 - 115		10/16/2019	14:44

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x65348.D

Report Prepared Thursday, October 17, 2019

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier:	Trip Blank		
Lab Sample ID:	194905-10	**Date Sampled:**	10/2/2019
Matrix:	Water	**Date Received:**	10/7/2019

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		10/16/2019 14:22
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		10/16/2019 14:22
1,1,2-Trichloroethane	< 2.00	ug/L		10/16/2019 14:22
1,1-Dichloroethane	< 2.00	ug/L		10/16/2019 14:22
1,1-Dichloroethene	< 2.00	ug/L		10/16/2019 14:22
1,2,3-Trichlorobenzene	< 5.00	ug/L		10/16/2019 14:22
1,2,4-Trichlorobenzene	< 5.00	ug/L		10/16/2019 14:22
1,2,4-Trimethylbenzene	< 2.00	ug/L		10/16/2019 14:22
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		10/16/2019 14:22
1,2-Dibromoethane	< 2.00	ug/L		10/16/2019 14:22
1,2-Dichlorobenzene	< 2.00	ug/L		10/16/2019 14:22
1,2-Dichloroethane	< 2.00	ug/L		10/16/2019 14:22
1,2-Dichloropropane	< 2.00	ug/L		10/16/2019 14:22
1,3,5-Trimethylbenzene	< 2.00	ug/L		10/16/2019 14:22
1,3-Dichlorobenzene	< 2.00	ug/L		10/16/2019 14:22
1,4-Dichlorobenzene	< 2.00	ug/L		10/16/2019 14:22
1,4-Dioxane	< 20.0	ug/L		10/16/2019 14:22
2-Butanone	< 10.0	ug/L		10/16/2019 14:22
2-Hexanone	< 5.00	ug/L		10/16/2019 14:22
4-Methyl-2-pentanone	< 5.00	ug/L		10/16/2019 14:22
Acetone	< 10.0	ug/L		10/16/2019 14:22
Benzene	< 1.00	ug/L		10/16/2019 14:22
Bromochloromethane	< 5.00	ug/L		10/16/2019 14:22

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: Trip Blank
Lab Sample ID: 194905-10 **Date Sampled:** 10/2/2019
Matrix: Water **Date Received:** 10/7/2019

Bromodichloromethane	< 2.00	ug/L		10/16/2019	14:22
Bromoform	< 5.00	ug/L		10/16/2019	14:22
Bromomethane	< 2.00	ug/L		10/16/2019	14:22
Carbon disulfide	< 2.00	ug/L		10/16/2019	14:22
Carbon Tetrachloride	< 2.00	ug/L		10/16/2019	14:22
Chlorobenzene	< 2.00	ug/L		10/16/2019	14:22
Chloroethane	< 2.00	ug/L		10/16/2019	14:22
Chloroform	< 2.00	ug/L		10/16/2019	14:22
Chloromethane	< 2.00	ug/L		10/16/2019	14:22
cis-1,2-Dichloroethene	< 2.00	ug/L		10/16/2019	14:22
cis-1,3-Dichloropropene	< 2.00	ug/L		10/16/2019	14:22
Cyclohexane	< 10.0	ug/L		10/16/2019	14:22
Dibromochloromethane	< 2.00	ug/L		10/16/2019	14:22
Dichlorodifluoromethane	< 2.00	ug/L		10/16/2019	14:22
Ethylbenzene	< 2.00	ug/L		10/16/2019	14:22
Freon 113	< 2.00	ug/L		10/16/2019	14:22
Isopropylbenzene	< 2.00	ug/L		10/16/2019	14:22
m,p-Xylene	< 2.00	ug/L		10/16/2019	14:22
Methyl acetate	< 2.00	ug/L		10/16/2019	14:22
Methyl tert-butyl Ether	< 2.00	ug/L		10/16/2019	14:22
Methylcyclohexane	< 2.00	ug/L		10/16/2019	14:22
Methylene chloride	**3.37**	ug/L	J	10/16/2019	14:22
Naphthalene	< 5.00	ug/L		10/16/2019	14:22
n-Butylbenzene	< 2.00	ug/L		10/16/2019	14:22
n-Propylbenzene	< 2.00	ug/L		10/16/2019	14:22

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 194905

Client: **Bergmann Associates**

Project Reference: VOA 3rd Qtr. Monitoring Back Lot - 214 Lake

Sample Identifier: Trip Blank
Lab Sample ID: 194905-10 **Date Sampled:** 10/2/2019
Matrix: Water **Date Received:** 10/7/2019

o-Xylene	< 2.00	ug/L	10/16/2019	14:22
p-Isopropyltoluene	< 2.00	ug/L	10/16/2019	14:22
sec-Butylbenzene	< 2.00	ug/L	10/16/2019	14:22
Styrene	< 5.00	ug/L	10/16/2019	14:22
tert-Butylbenzene	< 2.00	ug/L	10/16/2019	14:22
Tetrachloroethene	< 2.00	ug/L	10/16/2019	14:22
Toluene	< 2.00	ug/L	10/16/2019	14:22
trans-1,2-Dichloroethene	< 2.00	ug/L	10/16/2019	14:22
trans-1,3-Dichloropropene	< 2.00	ug/L	10/16/2019	14:22
Trichloroethene	< 2.00	ug/L	10/16/2019	14:22
Trichlorofluoromethane	< 2.00	ug/L	10/16/2019	14:22
Vinyl chloride	< 2.00	ug/L	10/16/2019	14:22

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**105**	70.5 - 135		10/16/2019	14:22
4-Bromofluorobenzene	**86.4**	62 - 127		10/16/2019	14:22
Pentafluorobenzene	**97.7**	87 - 113		10/16/2019	14:22
Toluene-D8	**95.2**	80.8 - 115		10/16/2019	14:22

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x65347.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

1 of 3

PARADIGM
ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

Page 1 of 2

REPORT TO:	INVOICE TO:	
CLIENT: Bergmann	CLIENT:	LAB PROJECT ID: 194905
ADDRESS: 280 E Broad street	ADDRESS:	
CITY: Rochester STATE: NY ZIP: 14604	CITY: STATE: ZIP:	Quotation #:
PHONE:	PHONE:	Email:
ATTN: Steve DelMeo	ATTN:	

PROJECT REFERENCE
VOA 3rd Qtr. Monitoring
BAckLot-214 Lake

Matrix Codes:
AQ - Aqueous Liquid, NQ - Non-Aqueous Liquid, WA - Water, WG - Groundwater, DW - Drinking Water, WW - Wastewater, SO - Soil, SL - Sludge, SD - Solid, PT - Paint, WP - Wipe, CK - Caulk, OL - Oil, AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	8260 Plus CPS	8270 BN	TAL metals	REMARKS	PARADIGM LAB SAMPLE NUMBER
										ASP CAT B.	
10/4/19	0930		X	MW-102	WG	4	X	X	X		01
10/4/19	1000		X	MWR-102	WG	4	X	X	X		02
10/4/19	1015		X	MW-10X	WG	4	X	X	X		03
10/4/19	1130		X	MW-101	WG	4	X	X	X		04
10/4/19	1200		X	MWR-101	WG	4	X	X	X		05
10/4/19	1230		X	MW-103	WG	4	X	X	X		06
10/4/19	200		X	MW-105	WG	4	X	X	X		07
10/4/19	230		X	MW-106	WG	4	X	X	X		08
10/4/19	300		X	MW-107	WG	4	X	X	X		09
10/4/19	300		X	MW-107MS	WG	4	X	X	X		

Stephen J. DelMeo

10°C iced started in field
custody seals intact [illegible] 10/4/19

Turnaround Time

Standard 5 day	☐
10 day	☒
Rush 3 day	☐
Rush 2 day	☐
Rush 1 day	☐
Date Needed ____ please indicate date needed:	

Report Supplements

Availability contingent upon lab approval; additional fees may apply.

None Required	☐	None Required	☐
Batch QC	☐	Basic EDD	☐
Category A	☐	NYSDEC EDD	☒
Category B	☒		
Other please indicate package needed:	☐	Other EDD please indicate EDD needed:	☐

		Date/Time
Sampled By	[signature]	10/4/19
Relinquished By	[signature]	10/4/19 1545
Received By	[signature]	10/7/19 12:23
Received @ Lab By		

Total Cost:

P.I.F.

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

PARADIGM ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:	INVOICE TO:	
CLIENT: Bergmann	CLIENT:	LAB PROJECT ID 194905
ADDRESS: 280 E. Broad Street	ADDRESS:	
CITY: Rochester STATE: NY ZIP: 14604	CITY: STATE: ZIP:	Quotation #:
PHONE:	PHONE:	Email:
ATTN: Steve DelMeo	ATTN:	

PROJECT REFERENCE
VOA 3rd Qtr. Monitoring
Back Lot-214 Lake

Matrix Codes:
AQ - Aqueous Liquid, NQ - Non-Aqueous Liquid, WA - Water, WG - Groundwater, DW - Drinking Water, WW - Wastewater, SO - Soil, SL - Sludge, SD - Solid, PT - Paint, WP - Wipe, CK - Caulk, OL - Oil, AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	8260+CP51(3)	8270 BN	TAL metals	REMARKS	PARADIGM LAB SAMPLE NUMBER
10/4/19	300		X	MW-107MSD	WG	4	X	X	X	ASP CAT B.	09
10/2/19	T943			Trip Blank	WA	1	X				10
per sample label @ 10/7/19											

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	None Required	☐	None Required	☐
10 day	☐	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Date Needed ____ please indicate date needed:		Other please indicate package needed:	☐	Other EDD please indicate EDD needed:	☐

Stephen J. DelMeo

Sampled By [signature]	Date/Time 10/4/19	Total Cost:
Relinquished By [signature]	Date/Time 10/4/19 1545	
Received By [signature]	Date/Time 10/7/19 12:23	P.I.F.
Received @ Lab By	Date/Time	

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

Chain of Custody Supplement

Client: Bergmann Associates **Completed by:** Glenn Pezzulo

Lab Project ID: 194905 **Date:** 10/7/19

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	X VOA		X
Comments			
Preservation	X		X SVOA
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		X Metals
Comments	10°C iced started in field 10/4/19		
Compliant Sample Quantity/Type	X		
Comments			

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier:	MWR-101		
Lab Sample ID:	200044-01	**Date Sampled:**	1/3/2020
Matrix:	Groundwater	**Date Received:**	1/3/2020

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		1/8/2020 10:19

Method Reference(s): EPA 7470A
Preparation Date: 1/7/2020
Data File: Hg200108A

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MWR-101
Lab Sample ID: 200044-01 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**1.35**	mg/L		1/7/2020 18:12
Antimony	< 0.0600	mg/L		1/7/2020 18:12
Arsenic	< 0.0100	mg/L		1/7/2020 18:12
Barium	< 0.100	mg/L		1/7/2020 18:12
Beryllium	< 0.00500	mg/L		1/7/2020 18:12
Cadmium	< 0.00500	mg/L		1/7/2020 18:12
Calcium	**18.3**	mg/L		1/7/2020 18:12
Chromium	< 0.0100	mg/L		1/7/2020 18:12
Cobalt	< 0.0500	mg/L		1/7/2020 18:12
Copper	< 0.0200	mg/L		1/7/2020 18:12
Iron	**0.984**	mg/L		1/7/2020 18:12
Lead	< 0.0100	mg/L		1/7/2020 18:12
Magnesium	**3.89**	mg/L		1/7/2020 18:12
Manganese	**0.0123**	mg/L	J	1/7/2020 18:12
Nickel	< 0.0400	mg/L		1/7/2020 18:12
Potassium	**2.47**	mg/L	J	1/7/2020 18:12
Selenium	< 0.0200	mg/L		1/7/2020 18:12
Silver	< 0.0100	mg/L		1/7/2020 18:12
Sodium	**878**	mg/L		1/14/2020 15:51
Thallium	< 0.0250	mg/L		1/7/2020 18:12
Vanadium	< 0.0250	mg/L		1/7/2020 18:12
Zinc	**0.0618**	mg/L		1/7/2020 18:12

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier:	MWR-101		
Lab Sample ID:	200044-01	**Date Sampled:**	1/3/2020
Matrix:	Groundwater	**Date Received:**	1/3/2020

Method Reference(s):	EPA 6010C
	EPA 3005A
Preparation Date:	1/6/2020
Data File:	200107C

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Thursday, January 16, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MWR-101
Lab Sample ID: 200044-01 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 9.96	ug/L		1/8/2020 00:33
1,2,4,5-Tetrachlorobenzene	< 9.96	ug/L		1/8/2020 00:33
1,2,4-Trichlorobenzene	< 9.96	ug/L		1/8/2020 00:33
1,2-Dichlorobenzene	< 9.96	ug/L		1/8/2020 00:33
1,3-Dichlorobenzene	< 9.96	ug/L		1/8/2020 00:33
1,4-Dichlorobenzene	< 9.96	ug/L		1/8/2020 00:33
2,2-Oxybis (1-chloropropane)	< 9.96	ug/L		1/8/2020 00:33
2,3,4,6-Tetrachlorophenol	< 9.96	ug/L		1/8/2020 00:33
2,4,5-Trichlorophenol	< 19.9	ug/L		1/8/2020 00:33
2,4,6-Trichlorophenol	< 9.96	ug/L		1/8/2020 00:33
2,4-Dichlorophenol	< 9.96	ug/L		1/8/2020 00:33
2,4-Dimethylphenol	< 19.9	ug/L		1/8/2020 00:33
2,4-Dinitrophenol	< 19.9	ug/L		1/8/2020 00:33
2,4-Dinitrotoluene	< 9.96	ug/L		1/8/2020 00:33
2,6-Dinitrotoluene	< 9.96	ug/L		1/8/2020 00:33
2-Chloronaphthalene	< 9.96	ug/L		1/8/2020 00:33
2-Chlorophenol	< 9.96	ug/L		1/8/2020 00:33
2-Methylnapthalene	< 9.96	ug/L		1/8/2020 00:33
2-Methylphenol	< 9.96	ug/L		1/8/2020 00:33
2-Nitroaniline	< 19.9	ug/L		1/8/2020 00:33
2-Nitrophenol	< 9.96	ug/L		1/8/2020 00:33
3&4-Methylphenol	< 9.96	ug/L		1/8/2020 00:33
3,3'-Dichlorobenzidine	< 9.96	ug/L		1/8/2020 00:33

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MWR-101
Lab Sample ID: 200044-01 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

3-Nitroaniline	< 19.9	ug/L	1/8/2020	00:33
4,6-Dinitro-2-methylphenol	< 19.9	ug/L	1/8/2020	00:33
4-Bromophenyl phenyl ether	< 9.96	ug/L	1/8/2020	00:33
4-Chloro-3-methylphenol	< 9.96	ug/L	1/8/2020	00:33
4-Chloroaniline	< 9.96	ug/L	1/8/2020	00:33
4-Chlorophenyl phenyl ether	< 9.96	ug/L	1/8/2020	00:33
4-Nitroaniline	< 19.9	ug/L	1/8/2020	00:33
4-Nitrophenol	< 19.9	ug/L	1/8/2020	00:33
Acenaphthene	< 9.96	ug/L	1/8/2020	00:33
Acenaphthylene	< 9.96	ug/L	1/8/2020	00:33
Acetophenone	< 9.96	ug/L	1/8/2020	00:33
Anthracene	< 9.96	ug/L	1/8/2020	00:33
Atrazine	< 9.96	ug/L	1/8/2020	00:33
Benzaldehyde	< 9.96	ug/L	1/8/2020	00:33
Benzo (a) anthracene	< 9.96	ug/L	1/8/2020	00:33
Benzo (a) pyrene	< 9.96	ug/L	1/8/2020	00:33
Benzo (b) fluoranthene	< 9.96	ug/L	1/8/2020	00:33
Benzo (g,h,i) perylene	< 9.96	ug/L	1/8/2020	00:33
Benzo (k) fluoranthene	< 9.96	ug/L	1/8/2020	00:33
Bis (2-chloroethoxy) methane	< 9.96	ug/L	1/8/2020	00:33
Bis (2-chloroethyl) ether	< 9.96	ug/L	1/8/2020	00:33
Bis (2-ethylhexyl) phthalate	< 9.96	ug/L	1/8/2020	00:33
Butylbenzylphthalate	< 9.96	ug/L	1/8/2020	00:33
Caprolactam	< 9.96	ug/L	1/8/2020	00:33
Carbazole	< 9.96	ug/L	1/8/2020	00:33

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MWR-101
Lab Sample ID: 200044-01 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

Chrysene	< 9.96	ug/L	1/8/2020	00:33
Dibenz (a,h) anthracene	< 9.96	ug/L	1/8/2020	00:33
Dibenzofuran	< 9.96	ug/L	1/8/2020	00:33
Diethyl phthalate	< 9.96	ug/L	1/8/2020	00:33
Dimethyl phthalate	< 19.9	ug/L	1/8/2020	00:33
Di-n-butyl phthalate	< 9.96	ug/L	1/8/2020	00:33
Di-n-octylphthalate	< 9.96	ug/L	1/8/2020	00:33
Fluoranthene	< 9.96	ug/L	1/8/2020	00:33
Fluorene	< 9.96	ug/L	1/8/2020	00:33
Hexachlorobenzene	< 9.96	ug/L	1/8/2020	00:33
Hexachlorobutadiene	< 9.96	ug/L	1/8/2020	00:33
Hexachlorocyclopentadiene	< 9.96	ug/L	1/8/2020	00:33
Hexachloroethane	< 9.96	ug/L	1/8/2020	00:33
Indeno (1,2,3-cd) pyrene	< 9.96	ug/L	1/8/2020	00:33
Isophorone	< 9.96	ug/L	1/8/2020	00:33
Naphthalene	< 9.96	ug/L	1/8/2020	00:33
Nitrobenzene	< 9.96	ug/L	1/8/2020	00:33
N-Nitroso-di-n-propylamine	< 9.96	ug/L	1/8/2020	00:33
N-Nitrosodiphenylamine	< 9.96	ug/L	1/8/2020	00:33
Pentachlorophenol	< 19.9	ug/L	1/8/2020	00:33
Phenanthrene	< 9.96	ug/L	1/8/2020	00:33
Phenol	< 9.96	ug/L	1/8/2020	00:33
Pyrene	< 9.96	ug/L	1/8/2020	00:33

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MWR-101
Lab Sample ID: 200044-01 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**94.5**	59.6 - 114		1/8/2020	00:33
2-Fluorobiphenyl	**70.0**	36.2 - 99.1		1/8/2020	00:33
2-Fluorophenol	**40.2**	14.9 - 105		1/8/2020	00:33
Nitrobenzene-d5	**78.8**	53.7 - 102		1/8/2020	00:33
Phenol-d5	**25.2**	10 - 106		1/8/2020	00:33
Terphenyl-d14	**79.8**	58.7 - 116		1/8/2020	00:33

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 1/6/2020
Data File: B43607.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MWR-101
Lab Sample ID: 200044-01 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		1/6/2020 22:22
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		1/6/2020 22:22
1,1,2-Trichloroethane	< 2.00	ug/L		1/6/2020 22:22
1,1-Dichloroethane	< 2.00	ug/L		1/6/2020 22:22
1,1-Dichloroethene	< 2.00	ug/L		1/6/2020 22:22
1,2,3-Trichlorobenzene	< 5.00	ug/L		1/6/2020 22:22
1,2,4-Trichlorobenzene	< 5.00	ug/L		1/6/2020 22:22
1,2,4-Trimethylbenzene	< 2.00	ug/L		1/6/2020 22:22
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		1/6/2020 22:22
1,2-Dibromoethane	< 2.00	ug/L		1/6/2020 22:22
1,2-Dichlorobenzene	< 2.00	ug/L		1/6/2020 22:22
1,2-Dichloroethane	< 2.00	ug/L		1/6/2020 22:22
1,2-Dichloropropane	< 2.00	ug/L		1/6/2020 22:22
1,3,5-Trimethylbenzene	< 2.00	ug/L		1/6/2020 22:22
1,3-Dichlorobenzene	< 2.00	ug/L		1/6/2020 22:22
1,4-Dichlorobenzene	< 2.00	ug/L		1/6/2020 22:22
1,4-Dioxane	< 20.0	ug/L		1/6/2020 22:22
2-Butanone	< 10.0	ug/L		1/6/2020 22:22
2-Hexanone	< 5.00	ug/L		1/6/2020 22:22
4-Methyl-2-pentanone	< 5.00	ug/L		1/6/2020 22:22
Acetone	< 10.0	ug/L		1/6/2020 22:22
Benzene	< 1.00	ug/L		1/6/2020 22:22
Bromochloromethane	< 5.00	ug/L		1/6/2020 22:22

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MWR-101
Lab Sample ID: 200044-01 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

Bromodichloromethane	< 2.00	ug/L	1/6/2020	22:22
Bromoform	< 5.00	ug/L	1/6/2020	22:22
Bromomethane	< 2.00	ug/L	1/6/2020	22:22
Carbon disulfide	< 2.00	ug/L	1/6/2020	22:22
Carbon Tetrachloride	< 2.00	ug/L	1/6/2020	22:22
Chlorobenzene	< 2.00	ug/L	1/6/2020	22:22
Chloroethane	< 2.00	ug/L	1/6/2020	22:22
Chloroform	< 2.00	ug/L	1/6/2020	22:22
Chloromethane	< 2.00	ug/L	1/6/2020	22:22
cis-1,2-Dichloroethene	< 2.00	ug/L	1/6/2020	22:22
cis-1,3-Dichloropropene	< 2.00	ug/L	1/6/2020	22:22
Cyclohexane	< 10.0	ug/L	1/6/2020	22:22
Dibromochloromethane	< 2.00	ug/L	1/6/2020	22:22
Dichlorodifluoromethane	< 2.00	ug/L	1/6/2020	22:22
Ethylbenzene	< 2.00	ug/L	1/6/2020	22:22
Freon 113	< 2.00	ug/L	1/6/2020	22:22
Isopropylbenzene	< 2.00	ug/L	1/6/2020	22:22
m,p-Xylene	< 2.00	ug/L	1/6/2020	22:22
Methyl acetate	< 2.00	ug/L	1/6/2020	22:22
Methyl tert-butyl Ether	< 2.00	ug/L	1/6/2020	22:22
Methylcyclohexane	< 2.00	ug/L	1/6/2020	22:22
Methylene chloride	< 5.00	ug/L	1/6/2020	22:22
Naphthalene	< 5.00	ug/L	1/6/2020	22:22
n-Butylbenzene	< 2.00	ug/L	1/6/2020	22:22
n-Propylbenzene	< 2.00	ug/L	1/6/2020	22:22

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MWR-101
Lab Sample ID: 200044-01 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

o-Xylene	< 2.00	ug/L	1/6/2020	22:22
p-Isopropyltoluene	< 2.00	ug/L	1/6/2020	22:22
sec-Butylbenzene	< 2.00	ug/L	1/6/2020	22:22
Styrene	< 5.00	ug/L	1/6/2020	22:22
tert-Butylbenzene	< 2.00	ug/L	1/6/2020	22:22
Tetrachloroethene	< 2.00	ug/L	1/6/2020	22:22
Toluene	< 2.00	ug/L	1/6/2020	22:22
trans-1,2-Dichloroethene	< 2.00	ug/L	1/6/2020	22:22
trans-1,3-Dichloropropene	< 2.00	ug/L	1/6/2020	22:22
Trichloroethene	< 2.00	ug/L	1/6/2020	22:22
Trichlorofluoromethane	< 2.00	ug/L	1/6/2020	22:22
Vinyl chloride	< 2.00	ug/L	1/6/2020	22:22

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**114**	74.3 - 138		1/6/2020	22:22
4-Bromofluorobenzene	**81.0**	66.3 - 125		1/6/2020	22:22
Pentafluorobenzene	**100**	87.4 - 111		1/6/2020	22:22
Toluene-D8	**90.9**	85.8 - 113		1/6/2020	22:22

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x67669.D

Report Prepared Thursday, January 16, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier:	MW-101		
Lab Sample ID:	200044-02	**Date Sampled:**	1/3/2020
Matrix:	Groundwater	**Date Received:**	1/3/2020

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		1/8/2020 10:21

Method Reference(s): EPA 7470A
Preparation Date: 1/7/2020
Data File: Hg200108A

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-101
Lab Sample ID: 200044-02 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	< 0.100	mg/L		1/7/2020 18:17
Antimony	< 0.0600	mg/L		1/7/2020 18:17
Arsenic	< 0.0100	mg/L		1/7/2020 18:17
Barium	**0.157**	mg/L		1/7/2020 18:17
Beryllium	< 0.00500	mg/L		1/7/2020 18:17
Cadmium	< 0.00500	mg/L		1/7/2020 18:17
Calcium	**144**	mg/L		1/7/2020 18:17
Chromium	< 0.0100	mg/L		1/7/2020 18:17
Cobalt	< 0.0500	mg/L		1/7/2020 18:17
Copper	< 0.0200	mg/L		1/7/2020 18:17
Iron	**8.91**	mg/L		1/7/2020 18:17
Lead	< 0.0100	mg/L		1/7/2020 18:17
Magnesium	**34.8**	mg/L		1/7/2020 18:17
Manganese	**0.577**	mg/L		1/7/2020 18:17
Nickel	< 0.0400	mg/L		1/7/2020 18:17
Potassium	**8.70**	mg/L		1/7/2020 18:17
Selenium	< 0.0200	mg/L		1/14/2020 15:29
Silver	< 0.0100	mg/L		1/7/2020 18:17
Sodium	**155**	mg/L		1/7/2020 18:17
Thallium	< 0.0250	mg/L		1/7/2020 18:17
Vanadium	< 0.0250	mg/L		1/7/2020 18:17
Zinc	< 0.0600	mg/L		1/7/2020 18:17

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier:	MW-101		
Lab Sample ID:	200044-02	**Date Sampled:**	1/3/2020
Matrix:	Groundwater	**Date Received:**	1/3/2020

Method Reference(s):	EPA 6010C
	EPA 3005A
Preparation Date:	1/6/2020
Data File:	200107C

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Thursday, January 16, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-101
Lab Sample ID: 200044-02 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		1/8/2020 01:01
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		1/8/2020 01:01
1,2,4-Trichlorobenzene	< 10.0	ug/L		1/8/2020 01:01
1,2-Dichlorobenzene	< 10.0	ug/L		1/8/2020 01:01
1,3-Dichlorobenzene	< 10.0	ug/L		1/8/2020 01:01
1,4-Dichlorobenzene	< 10.0	ug/L		1/8/2020 01:01
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		1/8/2020 01:01
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		1/8/2020 01:01
2,4,5-Trichlorophenol	< 20.0	ug/L		1/8/2020 01:01
2,4,6-Trichlorophenol	< 10.0	ug/L		1/8/2020 01:01
2,4-Dichlorophenol	< 10.0	ug/L		1/8/2020 01:01
2,4-Dimethylphenol	< 20.0	ug/L		1/8/2020 01:01
2,4-Dinitrophenol	< 20.0	ug/L		1/8/2020 01:01
2,4-Dinitrotoluene	< 10.0	ug/L		1/8/2020 01:01
2,6-Dinitrotoluene	< 10.0	ug/L		1/8/2020 01:01
2-Chloronaphthalene	< 10.0	ug/L		1/8/2020 01:01
2-Chlorophenol	< 10.0	ug/L		1/8/2020 01:01
2-Methylnapthalene	< 10.0	ug/L		1/8/2020 01:01
2-Methylphenol	< 10.0	ug/L		1/8/2020 01:01
2-Nitroaniline	< 20.0	ug/L		1/8/2020 01:01
2-Nitrophenol	< 10.0	ug/L		1/8/2020 01:01
3&4-Methylphenol	< 10.0	ug/L		1/8/2020 01:01
3,3'-Dichlorobenzidine	< 10.0	ug/L		1/8/2020 01:01

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-101
Lab Sample ID: 200044-02 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

3-Nitroaniline	< 20.0	ug/L	1/8/2020	01:01
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	1/8/2020	01:01
4-Bromophenyl phenyl ether	< 10.0	ug/L	1/8/2020	01:01
4-Chloro-3-methylphenol	< 10.0	ug/L	1/8/2020	01:01
4-Chloroaniline	< 10.0	ug/L	1/8/2020	01:01
4-Chlorophenyl phenyl ether	< 10.0	ug/L	1/8/2020	01:01
4-Nitroaniline	< 20.0	ug/L	1/8/2020	01:01
4-Nitrophenol	< 20.0	ug/L	1/8/2020	01:01
Acenaphthene	< 10.0	ug/L	1/8/2020	01:01
Acenaphthylene	< 10.0	ug/L	1/8/2020	01:01
Acetophenone	< 10.0	ug/L	1/8/2020	01:01
Anthracene	< 10.0	ug/L	1/8/2020	01:01
Atrazine	< 10.0	ug/L	1/8/2020	01:01
Benzaldehyde	< 10.0	ug/L	1/8/2020	01:01
Benzo (a) anthracene	< 10.0	ug/L	1/8/2020	01:01
Benzo (a) pyrene	< 10.0	ug/L	1/8/2020	01:01
Benzo (b) fluoranthene	< 10.0	ug/L	1/8/2020	01:01
Benzo (g,h,i) perylene	< 10.0	ug/L	1/8/2020	01:01
Benzo (k) fluoranthene	< 10.0	ug/L	1/8/2020	01:01
Bis (2-chloroethoxy) methane	< 10.0	ug/L	1/8/2020	01:01
Bis (2-chloroethyl) ether	< 10.0	ug/L	1/8/2020	01:01
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	1/8/2020	01:01
Butylbenzylphthalate	< 10.0	ug/L	1/8/2020	01:01
Caprolactam	< 10.0	ug/L	1/8/2020	01:01
Carbazole	< 10.0	ug/L	1/8/2020	01:01

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-101
Lab Sample ID: 200044-02 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

Chrysene	< 10.0	ug/L	1/8/2020	01:01
Dibenz (a,h) anthracene	< 10.0	ug/L	1/8/2020	01:01
Dibenzofuran	< 10.0	ug/L	1/8/2020	01:01
Diethyl phthalate	< 10.0	ug/L	1/8/2020	01:01
Dimethyl phthalate	< 20.0	ug/L	1/8/2020	01:01
Di-n-butyl phthalate	< 10.0	ug/L	1/8/2020	01:01
Di-n-octylphthalate	< 10.0	ug/L	1/8/2020	01:01
Fluoranthene	< 10.0	ug/L	1/8/2020	01:01
Fluorene	< 10.0	ug/L	1/8/2020	01:01
Hexachlorobenzene	< 10.0	ug/L	1/8/2020	01:01
Hexachlorobutadiene	< 10.0	ug/L	1/8/2020	01:01
Hexachlorocyclopentadiene	< 10.0	ug/L	1/8/2020	01:01
Hexachloroethane	< 10.0	ug/L	1/8/2020	01:01
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	1/8/2020	01:01
Isophorone	< 10.0	ug/L	1/8/2020	01:01
Naphthalene	< 10.0	ug/L	1/8/2020	01:01
Nitrobenzene	< 10.0	ug/L	1/8/2020	01:01
N-Nitroso-di-n-propylamine	< 10.0	ug/L	1/8/2020	01:01
N-Nitrosodiphenylamine	< 10.0	ug/L	1/8/2020	01:01
Pentachlorophenol	< 20.0	ug/L	1/8/2020	01:01
Phenanthrene	< 10.0	ug/L	1/8/2020	01:01
Phenol	< 10.0	ug/L	1/8/2020	01:01
Pyrene	< 10.0	ug/L	1/8/2020	01:01

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-101
Lab Sample ID: 200044-02 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**81.2**	59.6 - 114		1/8/2020	01:01
2-Fluorobiphenyl	**56.4**	36.2 - 99.1		1/8/2020	01:01
2-Fluorophenol	**37.6**	14.9 - 105		1/8/2020	01:01
Nitrobenzene-d5	**65.4**	53.7 - 102		1/8/2020	01:01
Phenol-d5	**23.9**	10 - 106		1/8/2020	01:01
Terphenyl-d14	**72.6**	58.7 - 116		1/8/2020	01:01

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 1/6/2020
Data File: B43608.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-101
Lab Sample ID: 200044-02 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		1/6/2020 22:44
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		1/6/2020 22:44
1,1,2-Trichloroethane	< 2.00	ug/L		1/6/2020 22:44
1,1-Dichloroethane	< 2.00	ug/L		1/6/2020 22:44
1,1-Dichloroethene	< 2.00	ug/L		1/6/2020 22:44
1,2,3-Trichlorobenzene	< 5.00	ug/L		1/6/2020 22:44
1,2,4-Trichlorobenzene	< 5.00	ug/L		1/6/2020 22:44
1,2,4-Trimethylbenzene	< 2.00	ug/L		1/6/2020 22:44
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		1/6/2020 22:44
1,2-Dibromoethane	< 2.00	ug/L		1/6/2020 22:44
1,2-Dichlorobenzene	< 2.00	ug/L		1/6/2020 22:44
1,2-Dichloroethane	< 2.00	ug/L		1/6/2020 22:44
1,2-Dichloropropane	< 2.00	ug/L		1/6/2020 22:44
1,3,5-Trimethylbenzene	< 2.00	ug/L		1/6/2020 22:44
1,3-Dichlorobenzene	< 2.00	ug/L		1/6/2020 22:44
1,4-Dichlorobenzene	< 2.00	ug/L		1/6/2020 22:44
1,4-Dioxane	< 20.0	ug/L		1/6/2020 22:44
2-Butanone	< 10.0	ug/L		1/6/2020 22:44
2-Hexanone	< 5.00	ug/L		1/6/2020 22:44
4-Methyl-2-pentanone	< 5.00	ug/L		1/6/2020 22:44
Acetone	< 10.0	ug/L		1/6/2020 22:44
Benzene	< 1.00	ug/L		1/6/2020 22:44
Bromochloromethane	< 5.00	ug/L		1/6/2020 22:44

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-101
Lab Sample ID: 200044-02 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

Bromodichloromethane	< 2.00	ug/L	1/6/2020	22:44
Bromoform	< 5.00	ug/L	1/6/2020	22:44
Bromomethane	< 2.00	ug/L	1/6/2020	22:44
Carbon disulfide	< 2.00	ug/L	1/6/2020	22:44
Carbon Tetrachloride	< 2.00	ug/L	1/6/2020	22:44
Chlorobenzene	< 2.00	ug/L	1/6/2020	22:44
Chloroethane	< 2.00	ug/L	1/6/2020	22:44
Chloroform	< 2.00	ug/L	1/6/2020	22:44
Chloromethane	< 2.00	ug/L	1/6/2020	22:44
cis-1,2-Dichloroethene	< 2.00	ug/L	1/6/2020	22:44
cis-1,3-Dichloropropene	< 2.00	ug/L	1/6/2020	22:44
Cyclohexane	< 10.0	ug/L	1/6/2020	22:44
Dibromochloromethane	< 2.00	ug/L	1/6/2020	22:44
Dichlorodifluoromethane	< 2.00	ug/L	1/6/2020	22:44
Ethylbenzene	< 2.00	ug/L	1/6/2020	22:44
Freon 113	< 2.00	ug/L	1/6/2020	22:44
Isopropylbenzene	< 2.00	ug/L	1/6/2020	22:44
m,p-Xylene	< 2.00	ug/L	1/6/2020	22:44
Methyl acetate	< 2.00	ug/L	1/6/2020	22:44
Methyl tert-butyl Ether	< 2.00	ug/L	1/6/2020	22:44
Methylcyclohexane	< 2.00	ug/L	1/6/2020	22:44
Methylene chloride	< 5.00	ug/L	1/6/2020	22:44
Naphthalene	< 5.00	ug/L	1/6/2020	22:44
n-Butylbenzene	< 2.00	ug/L	1/6/2020	22:44
n-Propylbenzene	< 2.00	ug/L	1/6/2020	22:44

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-101
Lab Sample ID: 200044-02 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

o-Xylene	< 2.00	ug/L	1/6/2020	22:44
p-Isopropyltoluene	< 2.00	ug/L	1/6/2020	22:44
sec-Butylbenzene	< 2.00	ug/L	1/6/2020	22:44
Styrene	< 5.00	ug/L	1/6/2020	22:44
tert-Butylbenzene	< 2.00	ug/L	1/6/2020	22:44
Tetrachloroethene	< 2.00	ug/L	1/6/2020	22:44
Toluene	< 2.00	ug/L	1/6/2020	22:44
trans-1,2-Dichloroethene	< 2.00	ug/L	1/6/2020	22:44
trans-1,3-Dichloropropene	< 2.00	ug/L	1/6/2020	22:44
Trichloroethene	< 2.00	ug/L	1/6/2020	22:44
Trichlorofluoromethane	< 2.00	ug/L	1/6/2020	22:44
Vinyl chloride	< 2.00	ug/L	1/6/2020	22:44

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**112**	74.3 - 138		1/6/2020	22:44
4-Bromofluorobenzene	**84.8**	66.3 - 125		1/6/2020	22:44
Pentafluorobenzene	**94.6**	87.4 - 111		1/6/2020	22:44
Toluene-D8	**89.9**	85.8 - 113		1/6/2020	22:44

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x67670.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier:	MW-103		
Lab Sample ID:	200044-03	**Date Sampled:**	1/3/2020
Matrix:	Groundwater	**Date Received:**	1/3/2020

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		1/8/2020 10:23

Method Reference(s): EPA 7470A
Preparation Date: 1/7/2020
Data File: Hg200108A

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-103
Lab Sample ID: 200044-03 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	< 0.100	mg/L		1/7/2020 18:21
Antimony	< 0.0600	mg/L		1/7/2020 18:21
Arsenic	< 0.0100	mg/L		1/7/2020 18:21
Barium	**0.277**	mg/L		1/7/2020 18:21
Beryllium	< 0.00500	mg/L		1/7/2020 18:21
Cadmium	< 0.00500	mg/L		1/7/2020 18:21
Calcium	**180**	mg/L		1/7/2020 18:21
Chromium	< 0.0100	mg/L		1/7/2020 18:21
Cobalt	< 0.0500	mg/L		1/7/2020 18:21
Copper	< 0.0200	mg/L		1/7/2020 18:21
Iron	**9.35**	mg/L		1/7/2020 18:21
Lead	< 0.0100	mg/L		1/7/2020 18:21
Magnesium	**39.0**	mg/L		1/7/2020 18:21
Manganese	**0.470**	mg/L		1/7/2020 18:21
Nickel	< 0.0400	mg/L		1/7/2020 18:21
Potassium	**10.2**	mg/L		1/7/2020 18:21
Selenium	< 0.0200	mg/L		1/7/2020 18:21
Silver	< 0.0100	mg/L		1/7/2020 18:21
Sodium	**181**	mg/L		1/7/2020 18:21
Thallium	< 0.0250	mg/L		1/7/2020 18:21
Vanadium	< 0.0250	mg/L		1/7/2020 18:21
Zinc	**0.0389**	mg/L	J	1/7/2020 18:21

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier:	MW-103		
Lab Sample ID:	200044-03	**Date Sampled:**	1/3/2020
Matrix:	Groundwater	**Date Received:**	1/3/2020

Method Reference(s):	EPA 6010C
	EPA 3005A
Preparation Date:	1/6/2020
Data File:	200107C

Report Prepared Thursday, January 16, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-103
Lab Sample ID: 200044-03 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		1/8/2020 01:30
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		1/8/2020 01:30
1,2,4-Trichlorobenzene	< 10.0	ug/L		1/8/2020 01:30
1,2-Dichlorobenzene	< 10.0	ug/L		1/8/2020 01:30
1,3-Dichlorobenzene	< 10.0	ug/L		1/8/2020 01:30
1,4-Dichlorobenzene	< 10.0	ug/L		1/8/2020 01:30
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		1/8/2020 01:30
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		1/8/2020 01:30
2,4,5-Trichlorophenol	< 20.0	ug/L		1/8/2020 01:30
2,4,6-Trichlorophenol	< 10.0	ug/L		1/8/2020 01:30
2,4-Dichlorophenol	< 10.0	ug/L		1/8/2020 01:30
2,4-Dimethylphenol	< 20.0	ug/L		1/8/2020 01:30
2,4-Dinitrophenol	< 20.0	ug/L		1/8/2020 01:30
2,4-Dinitrotoluene	< 10.0	ug/L		1/8/2020 01:30
2,6-Dinitrotoluene	< 10.0	ug/L		1/8/2020 01:30
2-Chloronaphthalene	< 10.0	ug/L		1/8/2020 01:30
2-Chlorophenol	< 10.0	ug/L		1/8/2020 01:30
2-Methylnapthalene	< 10.0	ug/L		1/8/2020 01:30
2-Methylphenol	< 10.0	ug/L		1/8/2020 01:30
2-Nitroaniline	< 20.0	ug/L		1/8/2020 01:30
2-Nitrophenol	< 10.0	ug/L		1/8/2020 01:30
3&4-Methylphenol	< 10.0	ug/L		1/8/2020 01:30
3,3'-Dichlorobenzidine	< 10.0	ug/L		1/8/2020 01:30

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-103
Lab Sample ID: 200044-03
Matrix: Groundwater
Date Sampled: 1/3/2020
Date Received: 1/3/2020

3-Nitroaniline	< 20.0	ug/L	1/8/2020	01:30
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	1/8/2020	01:30
4-Bromophenyl phenyl ether	< 10.0	ug/L	1/8/2020	01:30
4-Chloro-3-methylphenol	< 10.0	ug/L	1/8/2020	01:30
4-Chloroaniline	< 10.0	ug/L	1/8/2020	01:30
4-Chlorophenyl phenyl ether	< 10.0	ug/L	1/8/2020	01:30
4-Nitroaniline	< 20.0	ug/L	1/8/2020	01:30
4-Nitrophenol	< 20.0	ug/L	1/8/2020	01:30
Acenaphthene	< 10.0	ug/L	1/8/2020	01:30
Acenaphthylene	< 10.0	ug/L	1/8/2020	01:30
Acetophenone	< 10.0	ug/L	1/8/2020	01:30
Anthracene	< 10.0	ug/L	1/8/2020	01:30
Atrazine	< 10.0	ug/L	1/8/2020	01:30
Benzaldehyde	< 10.0	ug/L	1/8/2020	01:30
Benzo (a) anthracene	< 10.0	ug/L	1/8/2020	01:30
Benzo (a) pyrene	< 10.0	ug/L	1/8/2020	01:30
Benzo (b) fluoranthene	< 10.0	ug/L	1/8/2020	01:30
Benzo (g,h,i) perylene	< 10.0	ug/L	1/8/2020	01:30
Benzo (k) fluoranthene	< 10.0	ug/L	1/8/2020	01:30
Bis (2-chloroethoxy) methane	< 10.0	ug/L	1/8/2020	01:30
Bis (2-chloroethyl) ether	< 10.0	ug/L	1/8/2020	01:30
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	1/8/2020	01:30
Butylbenzylphthalate	< 10.0	ug/L	1/8/2020	01:30
Caprolactam	< 10.0	ug/L	1/8/2020	01:30
Carbazole	< 10.0	ug/L	1/8/2020	01:30

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-103
Lab Sample ID: 200044-03 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

Chrysene	< 10.0	ug/L	1/8/2020	01:30
Dibenz (a,h) anthracene	< 10.0	ug/L	1/8/2020	01:30
Dibenzofuran	< 10.0	ug/L	1/8/2020	01:30
Diethyl phthalate	< 10.0	ug/L	1/8/2020	01:30
Dimethyl phthalate	< 20.0	ug/L	1/8/2020	01:30
Di-n-butyl phthalate	< 10.0	ug/L	1/8/2020	01:30
Di-n-octylphthalate	< 10.0	ug/L	1/8/2020	01:30
Fluoranthene	< 10.0	ug/L	1/8/2020	01:30
Fluorene	< 10.0	ug/L	1/8/2020	01:30
Hexachlorobenzene	< 10.0	ug/L	1/8/2020	01:30
Hexachlorobutadiene	< 10.0	ug/L	1/8/2020	01:30
Hexachlorocyclopentadiene	< 10.0	ug/L	1/8/2020	01:30
Hexachloroethane	< 10.0	ug/L	1/8/2020	01:30
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	1/8/2020	01:30
Isophorone	< 10.0	ug/L	1/8/2020	01:30
Naphthalene	< 10.0	ug/L	1/8/2020	01:30
Nitrobenzene	< 10.0	ug/L	1/8/2020	01:30
N-Nitroso-di-n-propylamine	< 10.0	ug/L	1/8/2020	01:30
N-Nitrosodiphenylamine	< 10.0	ug/L	1/8/2020	01:30
Pentachlorophenol	< 20.0	ug/L	1/8/2020	01:30
Phenanthrene	< 10.0	ug/L	1/8/2020	01:30
Phenol	< 10.0	ug/L	1/8/2020	01:30
Pyrene	< 10.0	ug/L	1/8/2020	01:30

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-103
Lab Sample ID: 200044-03 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**91.1**	59.6 - 114		1/8/2020	01:30
2-Fluorobiphenyl	**67.0**	36.2 - 99.1		1/8/2020	01:30
2-Fluorophenol	**41.4**	14.9 - 105		1/8/2020	01:30
Nitrobenzene-d5	**71.5**	53.7 - 102		1/8/2020	01:30
Phenol-d5	**26.0**	10 - 106		1/8/2020	01:30
Terphenyl-d14	**81.3**	58.7 - 116		1/8/2020	01:30

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 1/6/2020
Data File: B43609.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-103
Lab Sample ID: 200044-03 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		1/7/2020 15:33
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		1/7/2020 15:33
1,1,2-Trichloroethane	< 2.00	ug/L		1/7/2020 15:33
1,1-Dichloroethane	< 2.00	ug/L		1/7/2020 15:33
1,1-Dichloroethene	< 2.00	ug/L		1/7/2020 15:33
1,2,3-Trichlorobenzene	< 5.00	ug/L		1/7/2020 15:33
1,2,4-Trichlorobenzene	< 5.00	ug/L		1/7/2020 15:33
1,2,4-Trimethylbenzene	< 2.00	ug/L		1/7/2020 15:33
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		1/7/2020 15:33
1,2-Dibromoethane	< 2.00	ug/L		1/7/2020 15:33
1,2-Dichlorobenzene	< 2.00	ug/L		1/7/2020 15:33
1,2-Dichloroethane	< 2.00	ug/L		1/7/2020 15:33
1,2-Dichloropropane	< 2.00	ug/L		1/7/2020 15:33
1,3,5-Trimethylbenzene	< 2.00	ug/L		1/7/2020 15:33
1,3-Dichlorobenzene	< 2.00	ug/L		1/7/2020 15:33
1,4-Dichlorobenzene	< 2.00	ug/L		1/7/2020 15:33
1,4-Dioxane	< 20.0	ug/L		1/7/2020 15:33
2-Butanone	< 10.0	ug/L		1/7/2020 15:33
2-Hexanone	< 5.00	ug/L		1/7/2020 15:33
4-Methyl-2-pentanone	< 5.00	ug/L		1/7/2020 15:33
Acetone	< 10.0	ug/L		1/7/2020 15:33
Benzene	< 1.00	ug/L		1/7/2020 15:33
Bromochloromethane	< 5.00	ug/L		1/7/2020 15:33

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-103
Lab Sample ID: 200044-03
Matrix: Groundwater
Date Sampled: 1/3/2020
Date Received: 1/3/2020

Bromodichloromethane	< 2.00	ug/L	1/7/2020	15:33
Bromoform	< 5.00	ug/L	1/7/2020	15:33
Bromomethane	< 2.00	ug/L	1/7/2020	15:33
Carbon disulfide	< 2.00	ug/L	1/7/2020	15:33
Carbon Tetrachloride	< 2.00	ug/L	1/7/2020	15:33
Chlorobenzene	< 2.00	ug/L	1/7/2020	15:33
Chloroethane	< 2.00	ug/L	1/7/2020	15:33
Chloroform	< 2.00	ug/L	1/7/2020	15:33
Chloromethane	< 2.00	ug/L	1/7/2020	15:33
cis-1,2-Dichloroethene	< 2.00	ug/L	1/7/2020	15:33
cis-1,3-Dichloropropene	< 2.00	ug/L	1/7/2020	15:33
Cyclohexane	< 10.0	ug/L	1/7/2020	15:33
Dibromochloromethane	< 2.00	ug/L	1/7/2020	15:33
Dichlorodifluoromethane	< 2.00	ug/L	1/7/2020	15:33
Ethylbenzene	< 2.00	ug/L	1/7/2020	15:33
Freon 113	< 2.00	ug/L	1/7/2020	15:33
Isopropylbenzene	< 2.00	ug/L	1/7/2020	15:33
m,p-Xylene	< 2.00	ug/L	1/7/2020	15:33
Methyl acetate	< 2.00	ug/L	1/7/2020	15:33
Methyl tert-butyl Ether	< 2.00	ug/L	1/7/2020	15:33
Methylcyclohexane	< 2.00	ug/L	1/7/2020	15:33
Methylene chloride	< 5.00	ug/L	1/7/2020	15:33
Naphthalene	< 5.00	ug/L	1/7/2020	15:33
n-Butylbenzene	< 2.00	ug/L	1/7/2020	15:33
n-Propylbenzene	< 2.00	ug/L	1/7/2020	15:33

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-103
Lab Sample ID: 200044-03 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

o-Xylene	< 2.00	ug/L	1/7/2020	15:33
p-Isopropyltoluene	< 2.00	ug/L	1/7/2020	15:33
sec-Butylbenzene	< 2.00	ug/L	1/7/2020	15:33
Styrene	< 5.00	ug/L	1/7/2020	15:33
tert-Butylbenzene	< 2.00	ug/L	1/7/2020	15:33
Tetrachloroethene	< 2.00	ug/L	1/7/2020	15:33
Toluene	< 2.00	ug/L	1/7/2020	15:33
trans-1,2-Dichloroethene	< 2.00	ug/L	1/7/2020	15:33
trans-1,3-Dichloropropene	< 2.00	ug/L	1/7/2020	15:33
Trichloroethene	< 2.00	ug/L	1/7/2020	15:33
Trichlorofluoromethane	< 2.00	ug/L	1/7/2020	15:33
Vinyl chloride	< 2.00	ug/L	1/7/2020	15:33

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**113**	74.3 - 138		1/7/2020	15:33
4-Bromofluorobenzene	**82.6**	66.3 - 125		1/7/2020	15:33
Pentafluorobenzene	**97.5**	87.4 - 111		1/7/2020	15:33
Toluene-D8	**90.2**	85.8 - 113		1/7/2020	15:33

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x67685.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier:	MW-107		
Lab Sample ID:	200044-04	**Date Sampled:**	1/3/2020
Matrix:	Groundwater	**Date Received:**	1/3/2020

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		1/8/2020 10:25

Method Reference(s): EPA 7470A
Preparation Date: 1/7/2020
Data File: Hg200108A

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-107
Lab Sample ID: 200044-04 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	< 0.100	mg/L		1/7/2020 18:26
Antimony	< 0.0600	mg/L		1/7/2020 18:26
Arsenic	< 0.0100	mg/L		1/7/2020 18:26
Barium	**0.111**	mg/L		1/7/2020 18:26
Beryllium	< 0.00500	mg/L		1/7/2020 18:26
Cadmium	< 0.00500	mg/L		1/7/2020 18:26
Calcium	**254**	mg/L		1/7/2020 18:26
Chromium	< 0.0100	mg/L		1/7/2020 18:26
Cobalt	< 0.0500	mg/L		1/7/2020 18:26
Copper	< 0.0200	mg/L		1/7/2020 18:26
Iron	**4.54**	mg/L		1/7/2020 18:26
Lead	< 0.0100	mg/L		1/7/2020 18:26
Magnesium	**40.5**	mg/L		1/7/2020 18:26
Manganese	**0.397**	mg/L		1/7/2020 18:26
Nickel	< 0.0400	mg/L		1/7/2020 18:26
Potassium	**8.28**	mg/L		1/7/2020 18:26
Selenium	< 0.0200	mg/L		1/14/2020 15:33
Silver	< 0.0100	mg/L		1/7/2020 18:26
Sodium	**66.3**	mg/L		1/7/2020 18:26
Thallium	< 0.0250	mg/L		1/7/2020 18:26
Vanadium	< 0.0250	mg/L		1/7/2020 18:26
Zinc	**0.0338**	mg/L	J	1/7/2020 18:26

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier:	MW-107		
Lab Sample ID:	200044-04	**Date Sampled:**	1/3/2020
Matrix:	Groundwater	**Date Received:**	1/3/2020

Method Reference(s):	EPA 6010C
	EPA 3005A
Preparation Date:	1/6/2020
Data File:	200107C

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Thursday, January 16, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-107
Lab Sample ID: 200044-04
Matrix: Groundwater
Date Sampled: 1/3/2020
Date Received: 1/3/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.1	ug/L		1/8/2020 01:59
1,2,4,5-Tetrachlorobenzene	< 10.1	ug/L		1/8/2020 01:59
1,2,4-Trichlorobenzene	< 10.1	ug/L		1/8/2020 01:59
1,2-Dichlorobenzene	< 10.1	ug/L		1/8/2020 01:59
1,3-Dichlorobenzene	< 10.1	ug/L		1/8/2020 01:59
1,4-Dichlorobenzene	< 10.1	ug/L		1/8/2020 01:59
2,2-Oxybis (1-chloropropane)	< 10.1	ug/L		1/8/2020 01:59
2,3,4,6-Tetrachlorophenol	< 10.1	ug/L		1/8/2020 01:59
2,4,5-Trichlorophenol	< 20.2	ug/L		1/8/2020 01:59
2,4,6-Trichlorophenol	< 10.1	ug/L		1/8/2020 01:59
2,4-Dichlorophenol	< 10.1	ug/L		1/8/2020 01:59
2,4-Dimethylphenol	< 20.2	ug/L		1/8/2020 01:59
2,4-Dinitrophenol	< 20.2	ug/L		1/8/2020 01:59
2,4-Dinitrotoluene	< 10.1	ug/L		1/8/2020 01:59
2,6-Dinitrotoluene	< 10.1	ug/L		1/8/2020 01:59
2-Chloronaphthalene	< 10.1	ug/L		1/8/2020 01:59
2-Chlorophenol	< 10.1	ug/L		1/8/2020 01:59
2-Methylnapthalene	< 10.1	ug/L		1/8/2020 01:59
2-Methylphenol	< 10.1	ug/L		1/8/2020 01:59
2-Nitroaniline	< 20.2	ug/L		1/8/2020 01:59
2-Nitrophenol	< 10.1	ug/L		1/8/2020 01:59
3&4-Methylphenol	< 10.1	ug/L		1/8/2020 01:59
3,3'-Dichlorobenzidine	< 10.1	ug/L		1/8/2020 01:59

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-107
Lab Sample ID: 200044-04
Matrix: Groundwater
Date Sampled: 1/3/2020
Date Received: 1/3/2020

3-Nitroaniline	< 20.2	ug/L	1/8/2020	01:59
4,6-Dinitro-2-methylphenol	< 20.2	ug/L	1/8/2020	01:59
4-Bromophenyl phenyl ether	< 10.1	ug/L	1/8/2020	01:59
4-Chloro-3-methylphenol	< 10.1	ug/L	1/8/2020	01:59
4-Chloroaniline	< 10.1	ug/L	1/8/2020	01:59
4-Chlorophenyl phenyl ether	< 10.1	ug/L	1/8/2020	01:59
4-Nitroaniline	< 20.2	ug/L	1/8/2020	01:59
4-Nitrophenol	< 20.2	ug/L	1/8/2020	01:59
Acenaphthene	< 10.1	ug/L	1/8/2020	01:59
Acenaphthylene	< 10.1	ug/L	1/8/2020	01:59
Acetophenone	< 10.1	ug/L	1/8/2020	01:59
Anthracene	< 10.1	ug/L	1/8/2020	01:59
Atrazine	< 10.1	ug/L	1/8/2020	01:59
Benzaldehyde	< 10.1	ug/L	1/8/2020	01:59
Benzo (a) anthracene	< 10.1	ug/L	1/8/2020	01:59
Benzo (a) pyrene	< 10.1	ug/L	1/8/2020	01:59
Benzo (b) fluoranthene	< 10.1	ug/L	1/8/2020	01:59
Benzo (g,h,i) perylene	< 10.1	ug/L	1/8/2020	01:59
Benzo (k) fluoranthene	< 10.1	ug/L	1/8/2020	01:59
Bis (2-chloroethoxy) methane	< 10.1	ug/L	1/8/2020	01:59
Bis (2-chloroethyl) ether	< 10.1	ug/L	1/8/2020	01:59
Bis (2-ethylhexyl) phthalate	< 10.1	ug/L	1/8/2020	01:59
Butylbenzylphthalate	< 10.1	ug/L	1/8/2020	01:59
Caprolactam	< 10.1	ug/L	1/8/2020	01:59
Carbazole	< 10.1	ug/L	1/8/2020	01:59

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-107
Lab Sample ID: 200044-04
Matrix: Groundwater
Date Sampled: 1/3/2020
Date Received: 1/3/2020

Chrysene	< 10.1	ug/L	1/8/2020	01:59
Dibenz (a,h) anthracene	< 10.1	ug/L	1/8/2020	01:59
Dibenzofuran	< 10.1	ug/L	1/8/2020	01:59
Diethyl phthalate	< 10.1	ug/L	1/8/2020	01:59
Dimethyl phthalate	< 20.2	ug/L	1/8/2020	01:59
Di-n-butyl phthalate	< 10.1	ug/L	1/8/2020	01:59
Di-n-octylphthalate	< 10.1	ug/L	1/8/2020	01:59
Fluoranthene	< 10.1	ug/L	1/8/2020	01:59
Fluorene	< 10.1	ug/L	1/8/2020	01:59
Hexachlorobenzene	< 10.1	ug/L	1/8/2020	01:59
Hexachlorobutadiene	< 10.1	ug/L	1/8/2020	01:59
Hexachlorocyclopentadiene	< 10.1	ug/L	1/8/2020	01:59
Hexachloroethane	< 10.1	ug/L	1/8/2020	01:59
Indeno (1,2,3-cd) pyrene	< 10.1	ug/L	1/8/2020	01:59
Isophorone	< 10.1	ug/L	1/8/2020	01:59
Naphthalene	< 10.1	ug/L	1/8/2020	01:59
Nitrobenzene	< 10.1	ug/L	1/8/2020	01:59
N-Nitroso-di-n-propylamine	< 10.1	ug/L	1/8/2020	01:59
N-Nitrosodiphenylamine	< 10.1	ug/L	1/8/2020	01:59
Pentachlorophenol	< 20.2	ug/L	1/8/2020	01:59
Phenanthrene	< 10.1	ug/L	1/8/2020	01:59
Phenol	< 10.1	ug/L	1/8/2020	01:59
Pyrene	< 10.1	ug/L	1/8/2020	01:59

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-107
Lab Sample ID: 200044-04 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**89.9**	59.6 - 114		1/8/2020	01:59
2-Fluorobiphenyl	**69.1**	36.2 - 99.1		1/8/2020	01:59
2-Fluorophenol	**33.6**	14.9 - 105		1/8/2020	01:59
Nitrobenzene-d5	**75.1**	53.7 - 102		1/8/2020	01:59
Phenol-d5	**21.6**	10 - 106		1/8/2020	01:59
Terphenyl-d14	**78.1**	58.7 - 116		1/8/2020	01:59

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 1/6/2020
Data File: B43610.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-107
Lab Sample ID: 200044-04 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		1/7/2020 15:55
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		1/7/2020 15:55
1,1,2-Trichloroethane	< 2.00	ug/L		1/7/2020 15:55
1,1-Dichloroethane	< 2.00	ug/L		1/7/2020 15:55
1,1-Dichloroethene	< 2.00	ug/L		1/7/2020 15:55
1,2,3-Trichlorobenzene	< 5.00	ug/L		1/7/2020 15:55
1,2,4-Trichlorobenzene	< 5.00	ug/L		1/7/2020 15:55
1,2,4-Trimethylbenzene	< 2.00	ug/L		1/7/2020 15:55
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		1/7/2020 15:55
1,2-Dibromoethane	< 2.00	ug/L		1/7/2020 15:55
1,2-Dichlorobenzene	< 2.00	ug/L		1/7/2020 15:55
1,2-Dichloroethane	< 2.00	ug/L		1/7/2020 15:55
1,2-Dichloropropane	< 2.00	ug/L		1/7/2020 15:55
1,3,5-Trimethylbenzene	< 2.00	ug/L		1/7/2020 15:55
1,3-Dichlorobenzene	< 2.00	ug/L		1/7/2020 15:55
1,4-Dichlorobenzene	< 2.00	ug/L		1/7/2020 15:55
1,4-Dioxane	< 20.0	ug/L		1/7/2020 15:55
2-Butanone	< 10.0	ug/L		1/7/2020 15:55
2-Hexanone	< 5.00	ug/L		1/7/2020 15:55
4-Methyl-2-pentanone	< 5.00	ug/L		1/7/2020 15:55
Acetone	< 10.0	ug/L		1/7/2020 15:55
Benzene	< 1.00	ug/L		1/7/2020 15:55
Bromochloromethane	< 5.00	ug/L		1/7/2020 15:55

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-107
Lab Sample ID: 200044-04
Matrix: Groundwater
Date Sampled: 1/3/2020
Date Received: 1/3/2020

Bromodichloromethane	< 2.00	ug/L	1/7/2020	15:55
Bromoform	< 5.00	ug/L	1/7/2020	15:55
Bromomethane	< 2.00	ug/L	1/7/2020	15:55
Carbon disulfide	< 2.00	ug/L	1/7/2020	15:55
Carbon Tetrachloride	< 2.00	ug/L	1/7/2020	15:55
Chlorobenzene	< 2.00	ug/L	1/7/2020	15:55
Chloroethane	< 2.00	ug/L	1/7/2020	15:55
Chloroform	< 2.00	ug/L	1/7/2020	15:55
Chloromethane	< 2.00	ug/L	1/7/2020	15:55
cis-1,2-Dichloroethene	< 2.00	ug/L	1/7/2020	15:55
cis-1,3-Dichloropropene	< 2.00	ug/L	1/7/2020	15:55
Cyclohexane	< 10.0	ug/L	1/7/2020	15:55
Dibromochloromethane	< 2.00	ug/L	1/7/2020	15:55
Dichlorodifluoromethane	< 2.00	ug/L	1/7/2020	15:55
Ethylbenzene	< 2.00	ug/L	1/7/2020	15:55
Freon 113	< 2.00	ug/L	1/7/2020	15:55
Isopropylbenzene	< 2.00	ug/L	1/7/2020	15:55
m,p-Xylene	< 2.00	ug/L	1/7/2020	15:55
Methyl acetate	< 2.00	ug/L	1/7/2020	15:55
Methyl tert-butyl Ether	< 2.00	ug/L	1/7/2020	15:55
Methylcyclohexane	< 2.00	ug/L	1/7/2020	15:55
Methylene chloride	< 5.00	ug/L	1/7/2020	15:55
Naphthalene	< 5.00	ug/L	1/7/2020	15:55
n-Butylbenzene	< 2.00	ug/L	1/7/2020	15:55
n-Propylbenzene	< 2.00	ug/L	1/7/2020	15:55

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-107
Lab Sample ID: 200044-04 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

o-Xylene	< 2.00	ug/L	1/7/2020	15:55
p-Isopropyltoluene	< 2.00	ug/L	1/7/2020	15:55
sec-Butylbenzene	< 2.00	ug/L	1/7/2020	15:55
Styrene	< 5.00	ug/L	1/7/2020	15:55
tert-Butylbenzene	< 2.00	ug/L	1/7/2020	15:55
Tetrachloroethene	< 2.00	ug/L	1/7/2020	15:55
Toluene	< 2.00	ug/L	1/7/2020	15:55
trans-1,2-Dichloroethene	< 2.00	ug/L	1/7/2020	15:55
trans-1,3-Dichloropropene	< 2.00	ug/L	1/7/2020	15:55
Trichloroethene	< 2.00	ug/L	1/7/2020	15:55
Trichlorofluoromethane	< 2.00	ug/L	1/7/2020	15:55
Vinyl chloride	< 2.00	ug/L	1/7/2020	15:55

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**121**	74.3 - 138		1/7/2020	15:55
4-Bromofluorobenzene	**78.9**	66.3 - 125		1/7/2020	15:55
Pentafluorobenzene	**98.5**	87.4 - 111		1/7/2020	15:55
Toluene-D8	**89.3**	85.8 - 113		1/7/2020	15:55

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x67686.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier:	MW-10		
Lab Sample ID:	200044-05	**Date Sampled:**	1/3/2020
Matrix:	Groundwater	**Date Received:**	1/3/2020

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.00105**	mg/L		1/8/2020 10:27

Method Reference(s): EPA 7470A
Preparation Date: 1/7/2020
Data File: Hg200108A

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-10
Lab Sample ID: 200044-05 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**0.598**	mg/L		1/7/2020 18:39
Antimony	< 0.0600	mg/L		1/7/2020 18:39
Arsenic	< 0.0100	mg/L		1/7/2020 18:39
Barium	**0.129**	mg/L		1/7/2020 18:39
Beryllium	< 0.00500	mg/L		1/7/2020 18:39
Cadmium	< 0.00500	mg/L		1/7/2020 18:39
Calcium	**258**	mg/L		1/7/2020 18:39
Chromium	< 0.0100	mg/L		1/7/2020 18:39
Cobalt	< 0.0500	mg/L		1/7/2020 18:39
Copper	**0.0218**	mg/L		1/7/2020 18:39
Iron	**6.22**	mg/L		1/7/2020 18:39
Lead	**0.0666**	mg/L		1/7/2020 18:39
Magnesium	**41.3**	mg/L		1/7/2020 18:39
Manganese	**0.432**	mg/L		1/7/2020 18:39
Nickel	< 0.0400	mg/L		1/7/2020 18:39
Potassium	**8.53**	mg/L		1/7/2020 18:39
Selenium	< 0.0200	mg/L		1/14/2020 15:38
Silver	< 0.0100	mg/L		1/7/2020 18:39
Sodium	**71.3**	mg/L		1/7/2020 18:39
Thallium	< 0.0250	mg/L		1/7/2020 18:39
Vanadium	< 0.0250	mg/L		1/7/2020 18:39
Zinc	**0.0685**	mg/L		1/7/2020 18:39

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier:	MW-10		
Lab Sample ID:	200044-05	**Date Sampled:**	1/3/2020
Matrix:	Groundwater	**Date Received:**	1/3/2020

Method Reference(s):	EPA 6010C
	EPA 3005A
Preparation Date:	1/6/2020
Data File:	200107C

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Thursday, January 16, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-10
Lab Sample ID: 200044-05 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.1	ug/L		1/8/2020 02:28
1,2,4,5-Tetrachlorobenzene	< 10.1	ug/L		1/8/2020 02:28
1,2,4-Trichlorobenzene	< 10.1	ug/L		1/8/2020 02:28
1,2-Dichlorobenzene	< 10.1	ug/L		1/8/2020 02:28
1,3-Dichlorobenzene	< 10.1	ug/L		1/8/2020 02:28
1,4-Dichlorobenzene	< 10.1	ug/L		1/8/2020 02:28
2,2-Oxybis (1-chloropropane)	< 10.1	ug/L		1/8/2020 02:28
2,3,4,6-Tetrachlorophenol	< 10.1	ug/L		1/8/2020 02:28
2,4,5-Trichlorophenol	< 20.1	ug/L		1/8/2020 02:28
2,4,6-Trichlorophenol	< 10.1	ug/L		1/8/2020 02:28
2,4-Dichlorophenol	< 10.1	ug/L		1/8/2020 02:28
2,4-Dimethylphenol	< 20.1	ug/L		1/8/2020 02:28
2,4-Dinitrophenol	< 20.1	ug/L		1/8/2020 02:28
2,4-Dinitrotoluene	< 10.1	ug/L		1/8/2020 02:28
2,6-Dinitrotoluene	< 10.1	ug/L		1/8/2020 02:28
2-Chloronaphthalene	< 10.1	ug/L		1/8/2020 02:28
2-Chlorophenol	< 10.1	ug/L		1/8/2020 02:28
2-Methylnapthalene	< 10.1	ug/L		1/8/2020 02:28
2-Methylphenol	< 10.1	ug/L		1/8/2020 02:28
2-Nitroaniline	< 20.1	ug/L		1/8/2020 02:28
2-Nitrophenol	< 10.1	ug/L		1/8/2020 02:28
3&4-Methylphenol	< 10.1	ug/L		1/8/2020 02:28
3,3'-Dichlorobenzidine	< 10.1	ug/L		1/8/2020 02:28

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-10
Lab Sample ID: 200044-05
Matrix: Groundwater
Date Sampled: 1/3/2020
Date Received: 1/3/2020

3-Nitroaniline	< 20.1	ug/L	1/8/2020	02:28
4,6-Dinitro-2-methylphenol	< 20.1	ug/L	1/8/2020	02:28
4-Bromophenyl phenyl ether	< 10.1	ug/L	1/8/2020	02:28
4-Chloro-3-methylphenol	< 10.1	ug/L	1/8/2020	02:28
4-Chloroaniline	< 10.1	ug/L	1/8/2020	02:28
4-Chlorophenyl phenyl ether	< 10.1	ug/L	1/8/2020	02:28
4-Nitroaniline	< 20.1	ug/L	1/8/2020	02:28
4-Nitrophenol	< 20.1	ug/L	1/8/2020	02:28
Acenaphthene	< 10.1	ug/L	1/8/2020	02:28
Acenaphthylene	< 10.1	ug/L	1/8/2020	02:28
Acetophenone	< 10.1	ug/L	1/8/2020	02:28
Anthracene	< 10.1	ug/L	1/8/2020	02:28
Atrazine	< 10.1	ug/L	1/8/2020	02:28
Benzaldehyde	< 10.1	ug/L	1/8/2020	02:28
Benzo (a) anthracene	< 10.1	ug/L	1/8/2020	02:28
Benzo (a) pyrene	< 10.1	ug/L	1/8/2020	02:28
Benzo (b) fluoranthene	< 10.1	ug/L	1/8/2020	02:28
Benzo (g,h,i) perylene	< 10.1	ug/L	1/8/2020	02:28
Benzo (k) fluoranthene	< 10.1	ug/L	1/8/2020	02:28
Bis (2-chloroethoxy) methane	< 10.1	ug/L	1/8/2020	02:28
Bis (2-chloroethyl) ether	< 10.1	ug/L	1/8/2020	02:28
Bis (2-ethylhexyl) phthalate	< 10.1	ug/L	1/8/2020	02:28
Butylbenzylphthalate	< 10.1	ug/L	1/8/2020	02:28
Caprolactam	< 10.1	ug/L	1/8/2020	02:28
Carbazole	< 10.1	ug/L	1/8/2020	02:28

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-10
Lab Sample ID: 200044-05
Matrix: Groundwater
Date Sampled: 1/3/2020
Date Received: 1/3/2020

Chrysene	< 10.1	ug/L	1/8/2020	02:28
Dibenz (a,h) anthracene	< 10.1	ug/L	1/8/2020	02:28
Dibenzofuran	< 10.1	ug/L	1/8/2020	02:28
Diethyl phthalate	< 10.1	ug/L	1/8/2020	02:28
Dimethyl phthalate	< 20.1	ug/L	1/8/2020	02:28
Di-n-butyl phthalate	< 10.1	ug/L	1/8/2020	02:28
Di-n-octylphthalate	< 10.1	ug/L	1/8/2020	02:28
Fluoranthene	< 10.1	ug/L	1/8/2020	02:28
Fluorene	< 10.1	ug/L	1/8/2020	02:28
Hexachlorobenzene	< 10.1	ug/L	1/8/2020	02:28
Hexachlorobutadiene	< 10.1	ug/L	1/8/2020	02:28
Hexachlorocyclopentadiene	< 10.1	ug/L	1/8/2020	02:28
Hexachloroethane	< 10.1	ug/L	1/8/2020	02:28
Indeno (1,2,3-cd) pyrene	< 10.1	ug/L	1/8/2020	02:28
Isophorone	< 10.1	ug/L	1/8/2020	02:28
Naphthalene	< 10.1	ug/L	1/8/2020	02:28
Nitrobenzene	< 10.1	ug/L	1/8/2020	02:28
N-Nitroso-di-n-propylamine	< 10.1	ug/L	1/8/2020	02:28
N-Nitrosodiphenylamine	< 10.1	ug/L	1/8/2020	02:28
Pentachlorophenol	< 20.1	ug/L	1/8/2020	02:28
Phenanthrene	< 10.1	ug/L	1/8/2020	02:28
Phenol	< 10.1	ug/L	1/8/2020	02:28
Pyrene	< 10.1	ug/L	1/8/2020	02:28

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-10
Lab Sample ID: 200044-05 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**98.9**	59.6 - 114		1/8/2020	02:28
2-Fluorobiphenyl	**76.8**	36.2 - 99.1		1/8/2020	02:28
2-Fluorophenol	**43.1**	14.9 - 105		1/8/2020	02:28
Nitrobenzene-d5	**81.1**	53.7 - 102		1/8/2020	02:28
Phenol-d5	**27.8**	10 - 106		1/8/2020	02:28
Terphenyl-d14	**84.5**	58.7 - 116		1/8/2020	02:28

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 1/6/2020
Data File: B43611.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-10
Lab Sample ID: 200044-05 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		1/7/2020 16:18
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		1/7/2020 16:18
1,1,2-Trichloroethane	< 2.00	ug/L		1/7/2020 16:18
1,1-Dichloroethane	< 2.00	ug/L		1/7/2020 16:18
1,1-Dichloroethene	< 2.00	ug/L		1/7/2020 16:18
1,2,3-Trichlorobenzene	< 5.00	ug/L		1/7/2020 16:18
1,2,4-Trichlorobenzene	< 5.00	ug/L		1/7/2020 16:18
1,2,4-Trimethylbenzene	< 2.00	ug/L		1/7/2020 16:18
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		1/7/2020 16:18
1,2-Dibromoethane	< 2.00	ug/L		1/7/2020 16:18
1,2-Dichlorobenzene	< 2.00	ug/L		1/7/2020 16:18
1,2-Dichloroethane	< 2.00	ug/L		1/7/2020 16:18
1,2-Dichloropropane	< 2.00	ug/L		1/7/2020 16:18
1,3,5-Trimethylbenzene	< 2.00	ug/L		1/7/2020 16:18
1,3-Dichlorobenzene	< 2.00	ug/L		1/7/2020 16:18
1,4-Dichlorobenzene	< 2.00	ug/L		1/7/2020 16:18
1,4-Dioxane	< 20.0	ug/L		1/7/2020 16:18
2-Butanone	< 10.0	ug/L		1/7/2020 16:18
2-Hexanone	< 5.00	ug/L		1/7/2020 16:18
4-Methyl-2-pentanone	< 5.00	ug/L		1/7/2020 16:18
Acetone	< 10.0	ug/L		1/7/2020 16:18
Benzene	< 1.00	ug/L		1/7/2020 16:18
Bromochloromethane	< 5.00	ug/L		1/7/2020 16:18

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-10
Lab Sample ID: 200044-05
Matrix: Groundwater
Date Sampled: 1/3/2020
Date Received: 1/3/2020

Bromodichloromethane	< 2.00	ug/L	1/7/2020	16:18
Bromoform	< 5.00	ug/L	1/7/2020	16:18
Bromomethane	< 2.00	ug/L	1/7/2020	16:18
Carbon disulfide	< 2.00	ug/L	1/7/2020	16:18
Carbon Tetrachloride	< 2.00	ug/L	1/7/2020	16:18
Chlorobenzene	< 2.00	ug/L	1/7/2020	16:18
Chloroethane	< 2.00	ug/L	1/7/2020	16:18
Chloroform	< 2.00	ug/L	1/7/2020	16:18
Chloromethane	< 2.00	ug/L	1/7/2020	16:18
cis-1,2-Dichloroethene	< 2.00	ug/L	1/7/2020	16:18
cis-1,3-Dichloropropene	< 2.00	ug/L	1/7/2020	16:18
Cyclohexane	< 10.0	ug/L	1/7/2020	16:18
Dibromochloromethane	< 2.00	ug/L	1/7/2020	16:18
Dichlorodifluoromethane	< 2.00	ug/L	1/7/2020	16:18
Ethylbenzene	< 2.00	ug/L	1/7/2020	16:18
Freon 113	< 2.00	ug/L	1/7/2020	16:18
Isopropylbenzene	< 2.00	ug/L	1/7/2020	16:18
m,p-Xylene	< 2.00	ug/L	1/7/2020	16:18
Methyl acetate	< 2.00	ug/L	1/7/2020	16:18
Methyl tert-butyl Ether	< 2.00	ug/L	1/7/2020	16:18
Methylcyclohexane	< 2.00	ug/L	1/7/2020	16:18
Methylene chloride	< 5.00	ug/L	1/7/2020	16:18
Naphthalene	< 5.00	ug/L	1/7/2020	16:18
n-Butylbenzene	< 2.00	ug/L	1/7/2020	16:18
n-Propylbenzene	< 2.00	ug/L	1/7/2020	16:18

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-10
Lab Sample ID: 200044-05 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

o-Xylene	< 2.00	ug/L	1/7/2020	16:18
p-Isopropyltoluene	< 2.00	ug/L	1/7/2020	16:18
sec-Butylbenzene	< 2.00	ug/L	1/7/2020	16:18
Styrene	< 5.00	ug/L	1/7/2020	16:18
tert-Butylbenzene	< 2.00	ug/L	1/7/2020	16:18
Tetrachloroethene	< 2.00	ug/L	1/7/2020	16:18
Toluene	< 2.00	ug/L	1/7/2020	16:18
trans-1,2-Dichloroethene	< 2.00	ug/L	1/7/2020	16:18
trans-1,3-Dichloropropene	< 2.00	ug/L	1/7/2020	16:18
Trichloroethene	< 2.00	ug/L	1/7/2020	16:18
Trichlorofluoromethane	< 2.00	ug/L	1/7/2020	16:18
Vinyl chloride	< 2.00	ug/L	1/7/2020	16:18

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**122**	74.3 - 138		1/7/2020	16:18
4-Bromofluorobenzene	**79.4**	66.3 - 125		1/7/2020	16:18
Pentafluorobenzene	**99.6**	87.4 - 111		1/7/2020	16:18
Toluene-D8	**87.9**	85.8 - 113		1/7/2020	16:18

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x67687.D

Report Prepared Thursday, January 16, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier:	MW-105		
Lab Sample ID:	200044-06	**Date Sampled:**	1/3/2020
Matrix:	Groundwater	**Date Received:**	1/3/2020

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		1/8/2020 10:29

Method Reference(s): EPA 7470A
Preparation Date: 1/7/2020
Data File: Hg200108A

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-105
Lab Sample ID: 200044-06
Matrix: Groundwater
Date Sampled: 1/3/2020
Date Received: 1/3/2020

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**9.27**	mg/L		1/7/2020 18:43
Antimony	< 0.0600	mg/L		1/7/2020 18:43
Arsenic	< 0.0100	mg/L		1/7/2020 18:43
Barium	< 0.100	mg/L		1/7/2020 18:43
Beryllium	< 0.00500	mg/L		1/7/2020 18:43
Cadmium	< 0.00500	mg/L		1/7/2020 18:43
Calcium	**178**	mg/L		1/7/2020 18:43
Chromium	**0.0108**	mg/L		1/7/2020 18:43
Cobalt	< 0.0500	mg/L		1/7/2020 18:43
Copper	< 0.0200	mg/L		1/7/2020 18:43
Iron	**13.0**	mg/L		1/7/2020 18:43
Lead	**0.0136**	mg/L		1/7/2020 18:43
Magnesium	**128**	mg/L		1/7/2020 18:43
Manganese	**0.236**	mg/L		1/7/2020 18:43
Nickel	< 0.0400	mg/L		1/7/2020 18:43
Potassium	**13.2**	mg/L		1/7/2020 18:43
Selenium	< 0.0200	mg/L		1/14/2020 15:42
Silver	< 0.0100	mg/L		1/7/2020 18:43
Sodium	**78.7**	mg/L		1/7/2020 18:43
Thallium	< 0.0250	mg/L		1/7/2020 18:43
Vanadium	**0.0137**	mg/L	J	1/7/2020 18:43
Zinc	**0.138**	mg/L		1/7/2020 18:43

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier:	MW-105		
Lab Sample ID:	200044-06	**Date Sampled:**	1/3/2020
Matrix:	Groundwater	**Date Received:**	1/3/2020

Method Reference(s):	EPA 6010C
	EPA 3005A
Preparation Date:	1/6/2020
Data File:	200107C

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Thursday, January 16, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-105
Lab Sample ID: 200044-06
Matrix: Groundwater
Date Sampled: 1/3/2020
Date Received: 1/3/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		1/8/2020 07:17
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		1/8/2020 07:17
1,2,4-Trichlorobenzene	< 10.0	ug/L		1/8/2020 07:17
1,2-Dichlorobenzene	< 10.0	ug/L		1/8/2020 07:17
1,3-Dichlorobenzene	< 10.0	ug/L		1/8/2020 07:17
1,4-Dichlorobenzene	< 10.0	ug/L		1/8/2020 07:17
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		1/8/2020 07:17
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		1/8/2020 07:17
2,4,5-Trichlorophenol	< 20.0	ug/L		1/8/2020 07:17
2,4,6-Trichlorophenol	< 10.0	ug/L		1/8/2020 07:17
2,4-Dichlorophenol	< 10.0	ug/L		1/8/2020 07:17
2,4-Dimethylphenol	< 20.0	ug/L		1/8/2020 07:17
2,4-Dinitrophenol	< 20.0	ug/L		1/8/2020 07:17
2,4-Dinitrotoluene	< 10.0	ug/L		1/8/2020 07:17
2,6-Dinitrotoluene	< 10.0	ug/L		1/8/2020 07:17
2-Chloronaphthalene	< 10.0	ug/L		1/8/2020 07:17
2-Chlorophenol	< 10.0	ug/L		1/8/2020 07:17
2-Methylnapthalene	< 10.0	ug/L		1/8/2020 07:17
2-Methylphenol	< 10.0	ug/L		1/8/2020 07:17
2-Nitroaniline	< 20.0	ug/L		1/8/2020 07:17
2-Nitrophenol	< 10.0	ug/L		1/8/2020 07:17
3&4-Methylphenol	< 10.0	ug/L		1/8/2020 07:17
3,3'-Dichlorobenzidine	< 10.0	ug/L		1/8/2020 07:17

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-105
Lab Sample ID: 200044-06
Matrix: Groundwater
Date Sampled: 1/3/2020
Date Received: 1/3/2020

3-Nitroaniline	< 20.0	ug/L	1/8/2020	07:17
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	1/8/2020	07:17
4-Bromophenyl phenyl ether	< 10.0	ug/L	1/8/2020	07:17
4-Chloro-3-methylphenol	< 10.0	ug/L	1/8/2020	07:17
4-Chloroaniline	< 10.0	ug/L	1/8/2020	07:17
4-Chlorophenyl phenyl ether	< 10.0	ug/L	1/8/2020	07:17
4-Nitroaniline	< 20.0	ug/L	1/8/2020	07:17
4-Nitrophenol	< 20.0	ug/L	1/8/2020	07:17
Acenaphthene	< 10.0	ug/L	1/8/2020	07:17
Acenaphthylene	< 10.0	ug/L	1/8/2020	07:17
Acetophenone	< 10.0	ug/L	1/8/2020	07:17
Anthracene	< 10.0	ug/L	1/8/2020	07:17
Atrazine	< 10.0	ug/L	1/8/2020	07:17
Benzaldehyde	< 10.0	ug/L	1/8/2020	07:17
Benzo (a) anthracene	< 10.0	ug/L	1/8/2020	07:17
Benzo (a) pyrene	< 10.0	ug/L	1/8/2020	07:17
Benzo (b) fluoranthene	< 10.0	ug/L	1/8/2020	07:17
Benzo (g,h,i) perylene	< 10.0	ug/L	1/8/2020	07:17
Benzo (k) fluoranthene	< 10.0	ug/L	1/8/2020	07:17
Bis (2-chloroethoxy) methane	< 10.0	ug/L	1/8/2020	07:17
Bis (2-chloroethyl) ether	< 10.0	ug/L	1/8/2020	07:17
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	1/8/2020	07:17
Butylbenzylphthalate	< 10.0	ug/L	1/8/2020	07:17
Caprolactam	< 10.0	ug/L	1/8/2020	07:17
Carbazole	< 10.0	ug/L	1/8/2020	07:17

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-105
Lab Sample ID: 200044-06
Matrix: Groundwater
Date Sampled: 1/3/2020
Date Received: 1/3/2020

Chrysene	< 10.0	ug/L	1/8/2020	07:17
Dibenz (a,h) anthracene	< 10.0	ug/L	1/8/2020	07:17
Dibenzofuran	< 10.0	ug/L	1/8/2020	07:17
Diethyl phthalate	< 10.0	ug/L	1/8/2020	07:17
Dimethyl phthalate	< 20.0	ug/L	1/8/2020	07:17
Di-n-butyl phthalate	< 10.0	ug/L	1/8/2020	07:17
Di-n-octylphthalate	< 10.0	ug/L	1/8/2020	07:17
Fluoranthene	< 10.0	ug/L	1/8/2020	07:17
Fluorene	< 10.0	ug/L	1/8/2020	07:17
Hexachlorobenzene	< 10.0	ug/L	1/8/2020	07:17
Hexachlorobutadiene	< 10.0	ug/L	1/8/2020	07:17
Hexachlorocyclopentadiene	< 10.0	ug/L	1/8/2020	07:17
Hexachloroethane	< 10.0	ug/L	1/8/2020	07:17
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	1/8/2020	07:17
Isophorone	< 10.0	ug/L	1/8/2020	07:17
Naphthalene	< 10.0	ug/L	1/8/2020	07:17
Nitrobenzene	< 10.0	ug/L	1/8/2020	07:17
N-Nitroso-di-n-propylamine	< 10.0	ug/L	1/8/2020	07:17
N-Nitrosodiphenylamine	< 10.0	ug/L	1/8/2020	07:17
Pentachlorophenol	< 20.0	ug/L	1/8/2020	07:17
Phenanthrene	< 10.0	ug/L	1/8/2020	07:17
Phenol	< 10.0	ug/L	1/8/2020	07:17
Pyrene	< 10.0	ug/L	1/8/2020	07:17

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-105
Lab Sample ID: 200044-06 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**81.0**	59.6 - 114		1/8/2020	07:17
2-Fluorobiphenyl	**62.9**	36.2 - 99.1		1/8/2020	07:17
2-Fluorophenol	**28.4**	14.9 - 105		1/8/2020	07:17
Nitrobenzene-d5	**68.3**	53.7 - 102		1/8/2020	07:17
Phenol-d5	**19.8**	10 - 106		1/8/2020	07:17
Terphenyl-d14	**71.5**	58.7 - 116		1/8/2020	07:17

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 1/6/2020
Data File: B43621.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-105
Lab Sample ID: 200044-06 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		1/7/2020 16:41
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		1/7/2020 16:41
1,1,2-Trichloroethane	< 2.00	ug/L		1/7/2020 16:41
1,1-Dichloroethane	< 2.00	ug/L		1/7/2020 16:41
1,1-Dichloroethene	< 2.00	ug/L		1/7/2020 16:41
1,2,3-Trichlorobenzene	< 5.00	ug/L		1/7/2020 16:41
1,2,4-Trichlorobenzene	< 5.00	ug/L		1/7/2020 16:41
1,2,4-Trimethylbenzene	< 2.00	ug/L		1/7/2020 16:41
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		1/7/2020 16:41
1,2-Dibromoethane	< 2.00	ug/L		1/7/2020 16:41
1,2-Dichlorobenzene	< 2.00	ug/L		1/7/2020 16:41
1,2-Dichloroethane	< 2.00	ug/L		1/7/2020 16:41
1,2-Dichloropropane	< 2.00	ug/L		1/7/2020 16:41
1,3,5-Trimethylbenzene	< 2.00	ug/L		1/7/2020 16:41
1,3-Dichlorobenzene	< 2.00	ug/L		1/7/2020 16:41
1,4-Dichlorobenzene	< 2.00	ug/L		1/7/2020 16:41
1,4-Dioxane	< 20.0	ug/L		1/7/2020 16:41
2-Butanone	< 10.0	ug/L		1/7/2020 16:41
2-Hexanone	< 5.00	ug/L		1/7/2020 16:41
4-Methyl-2-pentanone	< 5.00	ug/L		1/7/2020 16:41
Acetone	< 10.0	ug/L		1/7/2020 16:41
Benzene	< 1.00	ug/L		1/7/2020 16:41
Bromochloromethane	< 5.00	ug/L		1/7/2020 16:41

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-105
Lab Sample ID: 200044-06
Matrix: Groundwater
Date Sampled: 1/3/2020
Date Received: 1/3/2020

Bromodichloromethane	< 2.00	ug/L	1/7/2020	16:41
Bromoform	< 5.00	ug/L	1/7/2020	16:41
Bromomethane	< 2.00	ug/L	1/7/2020	16:41
Carbon disulfide	< 2.00	ug/L	1/7/2020	16:41
Carbon Tetrachloride	< 2.00	ug/L	1/7/2020	16:41
Chlorobenzene	< 2.00	ug/L	1/7/2020	16:41
Chloroethane	< 2.00	ug/L	1/7/2020	16:41
Chloroform	< 2.00	ug/L	1/7/2020	16:41
Chloromethane	< 2.00	ug/L	1/7/2020	16:41
cis-1,2-Dichloroethene	< 2.00	ug/L	1/7/2020	16:41
cis-1,3-Dichloropropene	< 2.00	ug/L	1/7/2020	16:41
Cyclohexane	< 10.0	ug/L	1/7/2020	16:41
Dibromochloromethane	< 2.00	ug/L	1/7/2020	16:41
Dichlorodifluoromethane	< 2.00	ug/L	1/7/2020	16:41
Ethylbenzene	< 2.00	ug/L	1/7/2020	16:41
Freon 113	< 2.00	ug/L	1/7/2020	16:41
Isopropylbenzene	< 2.00	ug/L	1/7/2020	16:41
m,p-Xylene	< 2.00	ug/L	1/7/2020	16:41
Methyl acetate	< 2.00	ug/L	1/7/2020	16:41
Methyl tert-butyl Ether	< 2.00	ug/L	1/7/2020	16:41
Methylcyclohexane	< 2.00	ug/L	1/7/2020	16:41
Methylene chloride	< 5.00	ug/L	1/7/2020	16:41
Naphthalene	< 5.00	ug/L	1/7/2020	16:41
n-Butylbenzene	< 2.00	ug/L	1/7/2020	16:41
n-Propylbenzene	< 2.00	ug/L	1/7/2020	16:41

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-105
Lab Sample ID: 200044-06 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

o-Xylene	< 2.00	ug/L	1/7/2020	16:41
p-Isopropyltoluene	< 2.00	ug/L	1/7/2020	16:41
sec-Butylbenzene	< 2.00	ug/L	1/7/2020	16:41
Styrene	< 5.00	ug/L	1/7/2020	16:41
tert-Butylbenzene	< 2.00	ug/L	1/7/2020	16:41
Tetrachloroethene	< 2.00	ug/L	1/7/2020	16:41
Toluene	< 2.00	ug/L	1/7/2020	16:41
trans-1,2-Dichloroethene	< 2.00	ug/L	1/7/2020	16:41
trans-1,3-Dichloropropene	< 2.00	ug/L	1/7/2020	16:41
Trichloroethene	< 2.00	ug/L	1/7/2020	16:41
Trichlorofluoromethane	< 2.00	ug/L	1/7/2020	16:41
Vinyl chloride	< 2.00	ug/L	1/7/2020	16:41

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**119**	74.3 - 138		1/7/2020	16:41
4-Bromofluorobenzene	**76.2**	66.3 - 125		1/7/2020	16:41
Pentafluorobenzene	**98.6**	87.4 - 111		1/7/2020	16:41
Toluene-D8	**88.2**	85.8 - 113		1/7/2020	16:41

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x67688.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier:	MW-106		
Lab Sample ID:	200044-07	**Date Sampled:**	1/3/2020
Matrix:	Groundwater	**Date Received:**	1/3/2020

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	**0.000363**	mg/L		1/8/2020 10:34

Method Reference(s): EPA 7470A
Preparation Date: 1/7/2020
Data File: Hg200108A

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-106
Lab Sample ID: 200044-07 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**2.78**	mg/L		1/7/2020 18:48
Antimony	< 0.0600	mg/L		1/7/2020 18:48
Arsenic	< 0.0100	mg/L		1/7/2020 18:48
Barium	**0.187**	mg/L		1/7/2020 18:48
Beryllium	< 0.00500	mg/L		1/7/2020 18:48
Cadmium	< 0.00500	mg/L		1/7/2020 18:48
Calcium	**118**	mg/L		1/7/2020 18:48
Chromium	**0.00511**	mg/L	J	1/7/2020 18:48
Cobalt	< 0.0500	mg/L		1/7/2020 18:48
Copper	**0.0253**	mg/L		1/7/2020 18:48
Iron	**6.31**	mg/L		1/7/2020 18:48
Lead	**0.0554**	mg/L		1/7/2020 18:48
Magnesium	**31.9**	mg/L		1/7/2020 18:48
Manganese	**0.403**	mg/L		1/7/2020 18:48
Nickel	< 0.0400	mg/L		1/7/2020 18:48
Potassium	**9.63**	mg/L		1/7/2020 18:48
Selenium	< 0.0200	mg/L		1/7/2020 18:48
Silver	< 0.0100	mg/L		1/7/2020 18:48
Sodium	**120**	mg/L		1/7/2020 18:48
Thallium	< 0.0250	mg/L		1/7/2020 18:48
Vanadium	< 0.0250	mg/L		1/7/2020 18:48
Zinc	**0.133**	mg/L		1/7/2020 18:48

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier:	MW-106		
Lab Sample ID:	200044-07	**Date Sampled:**	1/3/2020
Matrix:	Groundwater	**Date Received:**	1/3/2020

Method Reference(s):	EPA 6010C
	EPA 3005A
Preparation Date:	1/6/2020
Data File:	200107C

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Report Prepared Thursday, January 16, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-106
Lab Sample ID: 200044-07
Matrix: Groundwater
Date Sampled: 1/3/2020
Date Received: 1/3/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		1/8/2020 07:46
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		1/8/2020 07:46
1,2,4-Trichlorobenzene	< 10.0	ug/L		1/8/2020 07:46
1,2-Dichlorobenzene	< 10.0	ug/L		1/8/2020 07:46
1,3-Dichlorobenzene	< 10.0	ug/L		1/8/2020 07:46
1,4-Dichlorobenzene	< 10.0	ug/L		1/8/2020 07:46
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		1/8/2020 07:46
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		1/8/2020 07:46
2,4,5-Trichlorophenol	< 20.0	ug/L		1/8/2020 07:46
2,4,6-Trichlorophenol	< 10.0	ug/L		1/8/2020 07:46
2,4-Dichlorophenol	< 10.0	ug/L		1/8/2020 07:46
2,4-Dimethylphenol	< 20.0	ug/L		1/8/2020 07:46
2,4-Dinitrophenol	< 20.0	ug/L		1/8/2020 07:46
2,4-Dinitrotoluene	< 10.0	ug/L		1/8/2020 07:46
2,6-Dinitrotoluene	< 10.0	ug/L		1/8/2020 07:46
2-Chloronaphthalene	< 10.0	ug/L		1/8/2020 07:46
2-Chlorophenol	< 10.0	ug/L		1/8/2020 07:46
2-Methylnapthalene	< 10.0	ug/L		1/8/2020 07:46
2-Methylphenol	< 10.0	ug/L		1/8/2020 07:46
2-Nitroaniline	< 20.0	ug/L		1/8/2020 07:46
2-Nitrophenol	< 10.0	ug/L		1/8/2020 07:46
3&4-Methylphenol	< 10.0	ug/L		1/8/2020 07:46
3,3'-Dichlorobenzidine	< 10.0	ug/L		1/8/2020 07:46

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-106
Lab Sample ID: 200044-07
Matrix: Groundwater
Date Sampled: 1/3/2020
Date Received: 1/3/2020

3-Nitroaniline	< 20.0	ug/L	1/8/2020	07:46
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	1/8/2020	07:46
4-Bromophenyl phenyl ether	< 10.0	ug/L	1/8/2020	07:46
4-Chloro-3-methylphenol	< 10.0	ug/L	1/8/2020	07:46
4-Chloroaniline	< 10.0	ug/L	1/8/2020	07:46
4-Chlorophenyl phenyl ether	< 10.0	ug/L	1/8/2020	07:46
4-Nitroaniline	< 20.0	ug/L	1/8/2020	07:46
4-Nitrophenol	< 20.0	ug/L	1/8/2020	07:46
Acenaphthene	< 10.0	ug/L	1/8/2020	07:46
Acenaphthylene	< 10.0	ug/L	1/8/2020	07:46
Acetophenone	< 10.0	ug/L	1/8/2020	07:46
Anthracene	< 10.0	ug/L	1/8/2020	07:46
Atrazine	< 10.0	ug/L	1/8/2020	07:46
Benzaldehyde	< 10.0	ug/L	1/8/2020	07:46
Benzo (a) anthracene	< 10.0	ug/L	1/8/2020	07:46
Benzo (a) pyrene	< 10.0	ug/L	1/8/2020	07:46
Benzo (b) fluoranthene	< 10.0	ug/L	1/8/2020	07:46
Benzo (g,h,i) perylene	< 10.0	ug/L	1/8/2020	07:46
Benzo (k) fluoranthene	< 10.0	ug/L	1/8/2020	07:46
Bis (2-chloroethoxy) methane	< 10.0	ug/L	1/8/2020	07:46
Bis (2-chloroethyl) ether	< 10.0	ug/L	1/8/2020	07:46
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	1/8/2020	07:46
Butylbenzylphthalate	< 10.0	ug/L	1/8/2020	07:46
Caprolactam	< 10.0	ug/L	1/8/2020	07:46
Carbazole	< 10.0	ug/L	1/8/2020	07:46

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-106
Lab Sample ID: 200044-07
Matrix: Groundwater
Date Sampled: 1/3/2020
Date Received: 1/3/2020

Chrysene	< 10.0	ug/L	1/8/2020	07:46
Dibenz (a,h) anthracene	< 10.0	ug/L	1/8/2020	07:46
Dibenzofuran	< 10.0	ug/L	1/8/2020	07:46
Diethyl phthalate	< 10.0	ug/L	1/8/2020	07:46
Dimethyl phthalate	< 20.0	ug/L	1/8/2020	07:46
Di-n-butyl phthalate	< 10.0	ug/L	1/8/2020	07:46
Di-n-octylphthalate	< 10.0	ug/L	1/8/2020	07:46
Fluoranthene	< 10.0	ug/L	1/8/2020	07:46
Fluorene	< 10.0	ug/L	1/8/2020	07:46
Hexachlorobenzene	< 10.0	ug/L	1/8/2020	07:46
Hexachlorobutadiene	< 10.0	ug/L	1/8/2020	07:46
Hexachlorocyclopentadiene	< 10.0	ug/L	1/8/2020	07:46
Hexachloroethane	< 10.0	ug/L	1/8/2020	07:46
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	1/8/2020	07:46
Isophorone	< 10.0	ug/L	1/8/2020	07:46
Naphthalene	< 10.0	ug/L	1/8/2020	07:46
Nitrobenzene	< 10.0	ug/L	1/8/2020	07:46
N-Nitroso-di-n-propylamine	< 10.0	ug/L	1/8/2020	07:46
N-Nitrosodiphenylamine	< 10.0	ug/L	1/8/2020	07:46
Pentachlorophenol	< 20.0	ug/L	1/8/2020	07:46
Phenanthrene	< 10.0	ug/L	1/8/2020	07:46
Phenol	< 10.0	ug/L	1/8/2020	07:46
Pyrene	< 10.0	ug/L	1/8/2020	07:46

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-106
Lab Sample ID: 200044-07 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**80.9**	59.6 - 114		1/8/2020	07:46
2-Fluorobiphenyl	**58.3**	36.2 - 99.1		1/8/2020	07:46
2-Fluorophenol	**34.2**	14.9 - 105		1/8/2020	07:46
Nitrobenzene-d5	**66.5**	53.7 - 102		1/8/2020	07:46
Phenol-d5	**22.5**	10 - 106		1/8/2020	07:46
Terphenyl-d14	**75.0**	58.7 - 116		1/8/2020	07:46

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 1/6/2020
Data File: B43622.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-106
Lab Sample ID: 200044-07 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		1/7/2020 17:03
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		1/7/2020 17:03
1,1,2-Trichloroethane	< 2.00	ug/L		1/7/2020 17:03
1,1-Dichloroethane	< 2.00	ug/L		1/7/2020 17:03
1,1-Dichloroethene	< 2.00	ug/L		1/7/2020 17:03
1,2,3-Trichlorobenzene	< 5.00	ug/L		1/7/2020 17:03
1,2,4-Trichlorobenzene	< 5.00	ug/L		1/7/2020 17:03
1,2,4-Trimethylbenzene	< 2.00	ug/L		1/7/2020 17:03
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		1/7/2020 17:03
1,2-Dibromoethane	< 2.00	ug/L		1/7/2020 17:03
1,2-Dichlorobenzene	< 2.00	ug/L		1/7/2020 17:03
1,2-Dichloroethane	< 2.00	ug/L		1/7/2020 17:03
1,2-Dichloropropane	< 2.00	ug/L		1/7/2020 17:03
1,3,5-Trimethylbenzene	< 2.00	ug/L		1/7/2020 17:03
1,3-Dichlorobenzene	< 2.00	ug/L		1/7/2020 17:03
1,4-Dichlorobenzene	< 2.00	ug/L		1/7/2020 17:03
1,4-Dioxane	< 20.0	ug/L		1/7/2020 17:03
2-Butanone	< 10.0	ug/L		1/7/2020 17:03
2-Hexanone	< 5.00	ug/L		1/7/2020 17:03
4-Methyl-2-pentanone	< 5.00	ug/L		1/7/2020 17:03
Acetone	< 10.0	ug/L		1/7/2020 17:03
Benzene	< 1.00	ug/L		1/7/2020 17:03
Bromochloromethane	< 5.00	ug/L		1/7/2020 17:03

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-106
Lab Sample ID: 200044-07
Matrix: Groundwater
Date Sampled: 1/3/2020
Date Received: 1/3/2020

Bromodichloromethane	< 2.00	ug/L	1/7/2020	17:03
Bromoform	< 5.00	ug/L	1/7/2020	17:03
Bromomethane	< 2.00	ug/L	1/7/2020	17:03
Carbon disulfide	< 2.00	ug/L	1/7/2020	17:03
Carbon Tetrachloride	< 2.00	ug/L	1/7/2020	17:03
Chlorobenzene	**5.48**	ug/L	1/7/2020	17:03
Chloroethane	< 2.00	ug/L	1/7/2020	17:03
Chloroform	< 2.00	ug/L	1/7/2020	17:03
Chloromethane	< 2.00	ug/L	1/7/2020	17:03
cis-1,2-Dichloroethene	< 2.00	ug/L	1/7/2020	17:03
cis-1,3-Dichloropropene	< 2.00	ug/L	1/7/2020	17:03
Cyclohexane	< 10.0	ug/L	1/7/2020	17:03
Dibromochloromethane	< 2.00	ug/L	1/7/2020	17:03
Dichlorodifluoromethane	< 2.00	ug/L	1/7/2020	17:03
Ethylbenzene	< 2.00	ug/L	1/7/2020	17:03
Freon 113	< 2.00	ug/L	1/7/2020	17:03
Isopropylbenzene	< 2.00	ug/L	1/7/2020	17:03
m,p-Xylene	< 2.00	ug/L	1/7/2020	17:03
Methyl acetate	< 2.00	ug/L	1/7/2020	17:03
Methyl tert-butyl Ether	< 2.00	ug/L	1/7/2020	17:03
Methylcyclohexane	< 2.00	ug/L	1/7/2020	17:03
Methylene chloride	< 5.00	ug/L	1/7/2020	17:03
Naphthalene	< 5.00	ug/L	1/7/2020	17:03
n-Butylbenzene	< 2.00	ug/L	1/7/2020	17:03
n-Propylbenzene	< 2.00	ug/L	1/7/2020	17:03

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-106
Lab Sample ID: 200044-07 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

o-Xylene	< 2.00	ug/L	1/7/2020	17:03
p-Isopropyltoluene	< 2.00	ug/L	1/7/2020	17:03
sec-Butylbenzene	< 2.00	ug/L	1/7/2020	17:03
Styrene	< 5.00	ug/L	1/7/2020	17:03
tert-Butylbenzene	< 2.00	ug/L	1/7/2020	17:03
Tetrachloroethene	< 2.00	ug/L	1/7/2020	17:03
Toluene	< 2.00	ug/L	1/7/2020	17:03
trans-1,2-Dichloroethene	< 2.00	ug/L	1/7/2020	17:03
trans-1,3-Dichloropropene	< 2.00	ug/L	1/7/2020	17:03
Trichloroethene	< 2.00	ug/L	1/7/2020	17:03
Trichlorofluoromethane	< 2.00	ug/L	1/7/2020	17:03
Vinyl chloride	< 2.00	ug/L	1/7/2020	17:03

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**123**	74.3 - 138		1/7/2020	17:03
4-Bromofluorobenzene	**79.6**	66.3 - 125		1/7/2020	17:03
Pentafluorobenzene	**97.0**	87.4 - 111		1/7/2020	17:03
Toluene-D8	**89.9**	85.8 - 113		1/7/2020	17:03

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x67689.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier:	MW-102		
Lab Sample ID:	200044-08	**Date Sampled:**	1/3/2020
Matrix:	Groundwater	**Date Received:**	1/3/2020

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		1/8/2020 10:36

Method Reference(s): EPA 7470A
Preparation Date: 1/7/2020
Data File: Hg200108A

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-102
Lab Sample ID: 200044-08 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	< 0.100	mg/L		1/7/2020 18:52
Antimony	< 0.0600	mg/L		1/7/2020 18:52
Arsenic	< 0.0100	mg/L		1/7/2020 18:52
Barium	**0.696**	mg/L		1/7/2020 18:52
Beryllium	< 0.00500	mg/L		1/7/2020 18:52
Cadmium	< 0.00500	mg/L		1/7/2020 18:52
Calcium	**543**	mg/L		1/14/2020 15:55
Chromium	< 0.0100	mg/L		1/7/2020 18:52
Cobalt	< 0.0500	mg/L		1/7/2020 18:52
Copper	< 0.0200	mg/L		1/7/2020 18:52
Iron	**26.1**	mg/L		1/7/2020 18:52
Lead	< 0.0100	mg/L		1/7/2020 18:52
Magnesium	**134**	mg/L		1/7/2020 18:52
Manganese	**1.25**	mg/L		1/7/2020 18:52
Nickel	< 0.0400	mg/L		1/7/2020 18:52
Potassium	**42.8**	mg/L		1/7/2020 18:52
Selenium	< 0.0200	mg/L		1/7/2020 18:52
Silver	< 0.0100	mg/L		1/7/2020 18:52
Sodium	**1860**	mg/L		1/14/2020 15:55
Thallium	**0.0545**	mg/L		1/7/2020 18:52
Vanadium	< 0.0250	mg/L		1/7/2020 18:52
Zinc	**0.0375**	mg/L	J	1/7/2020 18:52

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier:	MW-102		
Lab Sample ID:	200044-08	**Date Sampled:**	1/3/2020
Matrix:	Groundwater	**Date Received:**	1/3/2020

Method Reference(s):	EPA 6010C
	EPA 3005A
Preparation Date:	1/6/2020
Data File:	200107C

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Thursday, January 16, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-102
Lab Sample ID: 200044-08
Matrix: Groundwater
Date Sampled: 1/3/2020
Date Received: 1/3/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.0	ug/L		1/8/2020 08:14
1,2,4,5-Tetrachlorobenzene	< 10.0	ug/L		1/8/2020 08:14
1,2,4-Trichlorobenzene	< 10.0	ug/L		1/8/2020 08:14
1,2-Dichlorobenzene	< 10.0	ug/L		1/8/2020 08:14
1,3-Dichlorobenzene	< 10.0	ug/L		1/8/2020 08:14
1,4-Dichlorobenzene	< 10.0	ug/L		1/8/2020 08:14
2,2-Oxybis (1-chloropropane)	< 10.0	ug/L		1/8/2020 08:14
2,3,4,6-Tetrachlorophenol	< 10.0	ug/L		1/8/2020 08:14
2,4,5-Trichlorophenol	< 20.0	ug/L		1/8/2020 08:14
2,4,6-Trichlorophenol	< 10.0	ug/L		1/8/2020 08:14
2,4-Dichlorophenol	< 10.0	ug/L		1/8/2020 08:14
2,4-Dimethylphenol	< 20.0	ug/L		1/8/2020 08:14
2,4-Dinitrophenol	< 20.0	ug/L		1/8/2020 08:14
2,4-Dinitrotoluene	< 10.0	ug/L		1/8/2020 08:14
2,6-Dinitrotoluene	< 10.0	ug/L		1/8/2020 08:14
2-Chloronaphthalene	< 10.0	ug/L		1/8/2020 08:14
2-Chlorophenol	< 10.0	ug/L		1/8/2020 08:14
2-Methylnapthalene	< 10.0	ug/L		1/8/2020 08:14
2-Methylphenol	< 10.0	ug/L		1/8/2020 08:14
2-Nitroaniline	< 20.0	ug/L		1/8/2020 08:14
2-Nitrophenol	< 10.0	ug/L		1/8/2020 08:14
3&4-Methylphenol	< 10.0	ug/L		1/8/2020 08:14
3,3'-Dichlorobenzidine	< 10.0	ug/L		1/8/2020 08:14

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-102
Lab Sample ID: 200044-08 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

3-Nitroaniline	< 20.0	ug/L	1/8/2020	08:14
4,6-Dinitro-2-methylphenol	< 20.0	ug/L	1/8/2020	08:14
4-Bromophenyl phenyl ether	< 10.0	ug/L	1/8/2020	08:14
4-Chloro-3-methylphenol	< 10.0	ug/L	1/8/2020	08:14
4-Chloroaniline	< 10.0	ug/L	1/8/2020	08:14
4-Chlorophenyl phenyl ether	< 10.0	ug/L	1/8/2020	08:14
4-Nitroaniline	< 20.0	ug/L	1/8/2020	08:14
4-Nitrophenol	< 20.0	ug/L	1/8/2020	08:14
Acenaphthene	< 10.0	ug/L	1/8/2020	08:14
Acenaphthylene	< 10.0	ug/L	1/8/2020	08:14
Acetophenone	< 10.0	ug/L	1/8/2020	08:14
Anthracene	< 10.0	ug/L	1/8/2020	08:14
Atrazine	< 10.0	ug/L	1/8/2020	08:14
Benzaldehyde	< 10.0	ug/L	1/8/2020	08:14
Benzo (a) anthracene	< 10.0	ug/L	1/8/2020	08:14
Benzo (a) pyrene	< 10.0	ug/L	1/8/2020	08:14
Benzo (b) fluoranthene	< 10.0	ug/L	1/8/2020	08:14
Benzo (g,h,i) perylene	< 10.0	ug/L	1/8/2020	08:14
Benzo (k) fluoranthene	< 10.0	ug/L	1/8/2020	08:14
Bis (2-chloroethoxy) methane	< 10.0	ug/L	1/8/2020	08:14
Bis (2-chloroethyl) ether	< 10.0	ug/L	1/8/2020	08:14
Bis (2-ethylhexyl) phthalate	< 10.0	ug/L	1/8/2020	08:14
Butylbenzylphthalate	< 10.0	ug/L	1/8/2020	08:14
Caprolactam	< 10.0	ug/L	1/8/2020	08:14
Carbazole	< 10.0	ug/L	1/8/2020	08:14

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-102
Lab Sample ID: 200044-08 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

Chrysene	< 10.0	ug/L	1/8/2020	08:14
Dibenz (a,h) anthracene	< 10.0	ug/L	1/8/2020	08:14
Dibenzofuran	< 10.0	ug/L	1/8/2020	08:14
Diethyl phthalate	< 10.0	ug/L	1/8/2020	08:14
Dimethyl phthalate	< 20.0	ug/L	1/8/2020	08:14
Di-n-butyl phthalate	< 10.0	ug/L	1/8/2020	08:14
Di-n-octylphthalate	< 10.0	ug/L	1/8/2020	08:14
Fluoranthene	< 10.0	ug/L	1/8/2020	08:14
Fluorene	< 10.0	ug/L	1/8/2020	08:14
Hexachlorobenzene	< 10.0	ug/L	1/8/2020	08:14
Hexachlorobutadiene	< 10.0	ug/L	1/8/2020	08:14
Hexachlorocyclopentadiene	< 10.0	ug/L	1/8/2020	08:14
Hexachloroethane	< 10.0	ug/L	1/8/2020	08:14
Indeno (1,2,3-cd) pyrene	< 10.0	ug/L	1/8/2020	08:14
Isophorone	< 10.0	ug/L	1/8/2020	08:14
Naphthalene	< 10.0	ug/L	1/8/2020	08:14
Nitrobenzene	< 10.0	ug/L	1/8/2020	08:14
N-Nitroso-di-n-propylamine	< 10.0	ug/L	1/8/2020	08:14
N-Nitrosodiphenylamine	< 10.0	ug/L	1/8/2020	08:14
Pentachlorophenol	< 20.0	ug/L	1/8/2020	08:14
Phenanthrene	< 10.0	ug/L	1/8/2020	08:14
Phenol	< 10.0	ug/L	1/8/2020	08:14
Pyrene	< 10.0	ug/L	1/8/2020	08:14

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-102
Lab Sample ID: 200044-08 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**90.8**	59.6 - 114		1/8/2020	08:14
2-Fluorobiphenyl	**62.5**	36.2 - 99.1		1/8/2020	08:14
2-Fluorophenol	**32.7**	14.9 - 105		1/8/2020	08:14
Nitrobenzene-d5	**71.7**	53.7 - 102		1/8/2020	08:14
Phenol-d5	**21.6**	10 - 106		1/8/2020	08:14
Terphenyl-d14	**78.3**	58.7 - 116		1/8/2020	08:14

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 1/6/2020
Data File: B43623.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-102
Lab Sample ID: 200044-08 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		1/7/2020 17:26
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		1/7/2020 17:26
1,1,2-Trichloroethane	< 2.00	ug/L		1/7/2020 17:26
1,1-Dichloroethane	< 2.00	ug/L		1/7/2020 17:26
1,1-Dichloroethene	< 2.00	ug/L		1/7/2020 17:26
1,2,3-Trichlorobenzene	< 5.00	ug/L		1/7/2020 17:26
1,2,4-Trichlorobenzene	< 5.00	ug/L		1/7/2020 17:26
1,2,4-Trimethylbenzene	< 2.00	ug/L		1/7/2020 17:26
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		1/7/2020 17:26
1,2-Dibromoethane	< 2.00	ug/L		1/7/2020 17:26
1,2-Dichlorobenzene	< 2.00	ug/L		1/7/2020 17:26
1,2-Dichloroethane	< 2.00	ug/L		1/7/2020 17:26
1,2-Dichloropropane	< 2.00	ug/L		1/7/2020 17:26
1,3,5-Trimethylbenzene	< 2.00	ug/L		1/7/2020 17:26
1,3-Dichlorobenzene	< 2.00	ug/L		1/7/2020 17:26
1,4-Dichlorobenzene	< 2.00	ug/L		1/7/2020 17:26
1,4-Dioxane	< 20.0	ug/L		1/7/2020 17:26
2-Butanone	< 10.0	ug/L		1/7/2020 17:26
2-Hexanone	< 5.00	ug/L		1/7/2020 17:26
4-Methyl-2-pentanone	< 5.00	ug/L		1/7/2020 17:26
Acetone	< 10.0	ug/L		1/7/2020 17:26
Benzene	< 1.00	ug/L		1/7/2020 17:26
Bromochloromethane	< 5.00	ug/L		1/7/2020 17:26

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-102
Lab Sample ID: 200044-08 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

Bromodichloromethane	< 2.00	ug/L	1/7/2020	17:26
Bromoform	< 5.00	ug/L	1/7/2020	17:26
Bromomethane	< 2.00	ug/L	1/7/2020	17:26
Carbon disulfide	< 2.00	ug/L	1/7/2020	17:26
Carbon Tetrachloride	< 2.00	ug/L	1/7/2020	17:26
Chlorobenzene	< 2.00	ug/L	1/7/2020	17:26
Chloroethane	< 2.00	ug/L	1/7/2020	17:26
Chloroform	< 2.00	ug/L	1/7/2020	17:26
Chloromethane	< 2.00	ug/L	1/7/2020	17:26
cis-1,2-Dichloroethene	< 2.00	ug/L	1/7/2020	17:26
cis-1,3-Dichloropropene	< 2.00	ug/L	1/7/2020	17:26
Cyclohexane	< 10.0	ug/L	1/7/2020	17:26
Dibromochloromethane	< 2.00	ug/L	1/7/2020	17:26
Dichlorodifluoromethane	< 2.00	ug/L	1/7/2020	17:26
Ethylbenzene	< 2.00	ug/L	1/7/2020	17:26
Freon 113	< 2.00	ug/L	1/7/2020	17:26
Isopropylbenzene	< 2.00	ug/L	1/7/2020	17:26
m,p-Xylene	< 2.00	ug/L	1/7/2020	17:26
Methyl acetate	< 2.00	ug/L	1/7/2020	17:26
Methyl tert-butyl Ether	< 2.00	ug/L	1/7/2020	17:26
Methylcyclohexane	< 2.00	ug/L	1/7/2020	17:26
Methylene chloride	< 5.00	ug/L	1/7/2020	17:26
Naphthalene	< 5.00	ug/L	1/7/2020	17:26
n-Butylbenzene	< 2.00	ug/L	1/7/2020	17:26
n-Propylbenzene	< 2.00	ug/L	1/7/2020	17:26

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MW-102
Lab Sample ID: 200044-08 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

o-Xylene	< 2.00	ug/L	1/7/2020	17:26
p-Isopropyltoluene	< 2.00	ug/L	1/7/2020	17:26
sec-Butylbenzene	< 2.00	ug/L	1/7/2020	17:26
Styrene	< 5.00	ug/L	1/7/2020	17:26
tert-Butylbenzene	< 2.00	ug/L	1/7/2020	17:26
Tetrachloroethene	< 2.00	ug/L	1/7/2020	17:26
Toluene	< 2.00	ug/L	1/7/2020	17:26
trans-1,2-Dichloroethene	< 2.00	ug/L	1/7/2020	17:26
trans-1,3-Dichloropropene	< 2.00	ug/L	1/7/2020	17:26
Trichloroethene	< 2.00	ug/L	1/7/2020	17:26
Trichlorofluoromethane	< 2.00	ug/L	1/7/2020	17:26
Vinyl chloride	< 2.00	ug/L	1/7/2020	17:26

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**124**	74.3 - 138		1/7/2020	17:26
4-Bromofluorobenzene	**91.0**	66.3 - 125		1/7/2020	17:26
Pentafluorobenzene	**96.1**	87.4 - 111		1/7/2020	17:26
Toluene-D8	**98.8**	85.8 - 113		1/7/2020	17:26

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x67690.D

Report Prepared Thursday, January 16, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier:	MWR-102		
Lab Sample ID:	200044-09	**Date Sampled:**	1/3/2020
Matrix:	Groundwater	**Date Received:**	1/3/2020

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		1/8/2020 10:38

Method Reference(s): EPA 7470A
Preparation Date: 1/7/2020
Data File: Hg200108A

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MWR-102
Lab Sample ID: 200044-09 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	< 0.100	mg/L		1/7/2020 18:57
Antimony	< 0.0600	mg/L		1/7/2020 18:57
Arsenic	< 0.0100	mg/L		1/7/2020 18:57
Barium	**0.0697**	mg/L	J	1/7/2020 18:57
Beryllium	< 0.00500	mg/L		1/7/2020 18:57
Cadmium	< 0.00500	mg/L		1/7/2020 18:57
Calcium	**106**	mg/L		1/7/2020 18:57
Chromium	< 0.0100	mg/L		1/7/2020 18:57
Cobalt	< 0.0500	mg/L		1/7/2020 18:57
Copper	< 0.0200	mg/L		1/7/2020 18:57
Iron	< 0.100	mg/L		1/7/2020 18:57
Lead	< 0.0100	mg/L		1/7/2020 18:57
Magnesium	**66.1**	mg/L		1/7/2020 18:57
Manganese	**0.161**	mg/L		1/7/2020 18:57
Nickel	< 0.0400	mg/L		1/7/2020 18:57
Potassium	**9.71**	mg/L		1/7/2020 18:57
Selenium	< 0.0200	mg/L		1/7/2020 18:57
Silver	< 0.0100	mg/L		1/7/2020 18:57
Sodium	**290**	mg/L	E	1/7/2020 18:57
Thallium	< 0.0250	mg/L		1/7/2020 18:57
Vanadium	< 0.0250	mg/L		1/7/2020 18:57
Zinc	< 0.0600	mg/L		1/7/2020 18:57

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier:	MWR-102		
Lab Sample ID:	200044-09	**Date Sampled:**	1/3/2020
Matrix:	Groundwater	**Date Received:**	1/3/2020

Method Reference(s):	EPA 6010C
	EPA 3005A
Preparation Date:	1/6/2020
Data File:	200107C

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Thursday, January 16, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MWR-102
Lab Sample ID: 200044-09
Matrix: Groundwater
Date Sampled: 1/3/2020
Date Received: 1/3/2020

Semi-Volatile Organics (Acid/Base Neutrals)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1-Biphenyl	< 10.1	ug/L		1/8/2020 02:57
1,2,4,5-Tetrachlorobenzene	< 10.1	ug/L		1/8/2020 02:57
1,2,4-Trichlorobenzene	< 10.1	ug/L		1/8/2020 02:57
1,2-Dichlorobenzene	< 10.1	ug/L		1/8/2020 02:57
1,3-Dichlorobenzene	< 10.1	ug/L		1/8/2020 02:57
1,4-Dichlorobenzene	< 10.1	ug/L		1/8/2020 02:57
2,2-Oxybis (1-chloropropane)	< 10.1	ug/L		1/8/2020 02:57
2,3,4,6-Tetrachlorophenol	< 10.1	ug/L		1/8/2020 02:57
2,4,5-Trichlorophenol	< 20.1	ug/L		1/8/2020 02:57
2,4,6-Trichlorophenol	< 10.1	ug/L		1/8/2020 02:57
2,4-Dichlorophenol	< 10.1	ug/L	M	1/8/2020 02:57
2,4-Dimethylphenol	< 20.1	ug/L	DM	1/8/2020 02:57
2,4-Dinitrophenol	< 20.1	ug/L		1/8/2020 02:57
2,4-Dinitrotoluene	< 10.1	ug/L		1/8/2020 02:57
2,6-Dinitrotoluene	< 10.1	ug/L		1/8/2020 02:57
2-Chloronaphthalene	< 10.1	ug/L		1/8/2020 02:57
2-Chlorophenol	< 10.1	ug/L	M	1/8/2020 02:57
2-Methylnapthalene	< 10.1	ug/L		1/8/2020 02:57
2-Methylphenol	< 10.1	ug/L		1/8/2020 02:57
2-Nitroaniline	< 20.1	ug/L		1/8/2020 02:57
2-Nitrophenol	< 10.1	ug/L		1/8/2020 02:57
3&4-Methylphenol	< 10.1	ug/L		1/8/2020 02:57
3,3'-Dichlorobenzidine	< 10.1	ug/L		1/8/2020 02:57

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MWR-102
Lab Sample ID: 200044-09
Matrix: Groundwater
Date Sampled: 1/3/2020
Date Received: 1/3/2020

3-Nitroaniline	< 20.1	ug/L		1/8/2020	02:57
4,6-Dinitro-2-methylphenol	< 20.1	ug/L		1/8/2020	02:57
4-Bromophenyl phenyl ether	< 10.1	ug/L		1/8/2020	02:57
4-Chloro-3-methylphenol	< 10.1	ug/L	M	1/8/2020	02:57
4-Chloroaniline	< 10.1	ug/L		1/8/2020	02:57
4-Chlorophenyl phenyl ether	< 10.1	ug/L		1/8/2020	02:57
4-Nitroaniline	< 20.1	ug/L		1/8/2020	02:57
4-Nitrophenol	< 20.1	ug/L		1/8/2020	02:57
Acenaphthene	< 10.1	ug/L		1/8/2020	02:57
Acenaphthylene	< 10.1	ug/L		1/8/2020	02:57
Acetophenone	< 10.1	ug/L		1/8/2020	02:57
Anthracene	< 10.1	ug/L		1/8/2020	02:57
Atrazine	< 10.1	ug/L		1/8/2020	02:57
Benzaldehyde	< 10.1	ug/L		1/8/2020	02:57
Benzo (a) anthracene	< 10.1	ug/L		1/8/2020	02:57
Benzo (a) pyrene	< 10.1	ug/L		1/8/2020	02:57
Benzo (b) fluoranthene	< 10.1	ug/L		1/8/2020	02:57
Benzo (g,h,i) perylene	< 10.1	ug/L		1/8/2020	02:57
Benzo (k) fluoranthene	< 10.1	ug/L		1/8/2020	02:57
Bis (2-chloroethoxy) methane	< 10.1	ug/L		1/8/2020	02:57
Bis (2-chloroethyl) ether	< 10.1	ug/L		1/8/2020	02:57
Bis (2-ethylhexyl) phthalate	< 10.1	ug/L		1/8/2020	02:57
Butylbenzylphthalate	< 10.1	ug/L		1/8/2020	02:57
Caprolactam	< 10.1	ug/L		1/8/2020	02:57
Carbazole	< 10.1	ug/L		1/8/2020	02:57

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MWR-102
Lab Sample ID: 200044-09
Matrix: Groundwater
Date Sampled: 1/3/2020
Date Received: 1/3/2020

Chrysene	< 10.1	ug/L	1/8/2020	02:57
Dibenz (a,h) anthracene	< 10.1	ug/L	1/8/2020	02:57
Dibenzofuran	< 10.1	ug/L	1/8/2020	02:57
Diethyl phthalate	< 10.1	ug/L	1/8/2020	02:57
Dimethyl phthalate	< 20.1	ug/L	1/8/2020	02:57
Di-n-butyl phthalate	< 10.1	ug/L	1/8/2020	02:57
Di-n-octylphthalate	< 10.1	ug/L	1/8/2020	02:57
Fluoranthene	< 10.1	ug/L	1/8/2020	02:57
Fluorene	< 10.1	ug/L	1/8/2020	02:57
Hexachlorobenzene	< 10.1	ug/L	1/8/2020	02:57
Hexachlorobutadiene	< 10.1	ug/L	1/8/2020	02:57
Hexachlorocyclopentadiene	< 10.1	ug/L	1/8/2020	02:57
Hexachloroethane	< 10.1	ug/L	1/8/2020	02:57
Indeno (1,2,3-cd) pyrene	< 10.1	ug/L	1/8/2020	02:57
Isophorone	< 10.1	ug/L	1/8/2020	02:57
Naphthalene	< 10.1	ug/L	1/8/2020	02:57
Nitrobenzene	< 10.1	ug/L	1/8/2020	02:57
N-Nitroso-di-n-propylamine	< 10.1	ug/L	1/8/2020	02:57
N-Nitrosodiphenylamine	< 10.1	ug/L	1/8/2020	02:57
Pentachlorophenol	< 20.1	ug/L	1/8/2020	02:57
Phenanthrene	< 10.1	ug/L	1/8/2020	02:57
Phenol	< 10.1	ug/L	1/8/2020	02:57
Pyrene	< 10.1	ug/L	1/8/2020	02:57

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MWR-102
Lab Sample ID: 200044-09 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
2,4,6-Tribromophenol	**90.4**	59.6 - 114		1/8/2020	02:57
2-Fluorobiphenyl	**72.5**	36.2 - 99.1		1/8/2020	02:57
2-Fluorophenol	**27.7**	14.9 - 105		1/8/2020	02:57
Nitrobenzene-d5	**79.3**	53.7 - 102		1/8/2020	02:57
Phenol-d5	**18.6**	10 - 106		1/8/2020	02:57
Terphenyl-d14	**81.5**	58.7 - 116		1/8/2020	02:57

Method Reference(s): EPA 8270D
EPA 3510C
Preparation Date: 1/6/2020
Data File: B43612.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MWR-102
Lab Sample ID: 200044-09 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		1/7/2020 17:49
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		1/7/2020 17:49
1,1,2-Trichloroethane	< 2.00	ug/L		1/7/2020 17:49
1,1-Dichloroethane	< 2.00	ug/L		1/7/2020 17:49
1,1-Dichloroethene	< 2.00	ug/L		1/7/2020 17:49
1,2,3-Trichlorobenzene	< 5.00	ug/L		1/7/2020 17:49
1,2,4-Trichlorobenzene	< 5.00	ug/L		1/7/2020 17:49
1,2,4-Trimethylbenzene	< 2.00	ug/L		1/7/2020 17:49
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		1/7/2020 17:49
1,2-Dibromoethane	< 2.00	ug/L		1/7/2020 17:49
1,2-Dichlorobenzene	< 2.00	ug/L		1/7/2020 17:49
1,2-Dichloroethane	< 2.00	ug/L		1/7/2020 17:49
1,2-Dichloropropane	< 2.00	ug/L		1/7/2020 17:49
1,3,5-Trimethylbenzene	< 2.00	ug/L		1/7/2020 17:49
1,3-Dichlorobenzene	< 2.00	ug/L		1/7/2020 17:49
1,4-Dichlorobenzene	< 2.00	ug/L		1/7/2020 17:49
1,4-Dioxane	< 20.0	ug/L		1/7/2020 17:49
2-Butanone	< 10.0	ug/L		1/7/2020 17:49
2-Hexanone	< 5.00	ug/L		1/7/2020 17:49
4-Methyl-2-pentanone	< 5.00	ug/L		1/7/2020 17:49
Acetone	< 10.0	ug/L		1/7/2020 17:49
Benzene	< 1.00	ug/L		1/7/2020 17:49
Bromochloromethane	< 5.00	ug/L		1/7/2020 17:49

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MWR-102
Lab Sample ID: 200044-09
Matrix: Groundwater
Date Sampled: 1/3/2020
Date Received: 1/3/2020

Bromodichloromethane	< 2.00	ug/L		1/7/2020	17:49
Bromoform	< 5.00	ug/L		1/7/2020	17:49
Bromomethane	< 2.00	ug/L		1/7/2020	17:49
Carbon disulfide	< 2.00	ug/L		1/7/2020	17:49
Carbon Tetrachloride	< 2.00	ug/L		1/7/2020	17:49
Chlorobenzene	< 2.00	ug/L		1/7/2020	17:49
Chloroethane	< 2.00	ug/L		1/7/2020	17:49
Chloroform	< 2.00	ug/L		1/7/2020	17:49
Chloromethane	< 2.00	ug/L		1/7/2020	17:49
cis-1,2-Dichloroethene	**1.77**	ug/L	J	1/7/2020	17:49
cis-1,3-Dichloropropene	< 2.00	ug/L		1/7/2020	17:49
Cyclohexane	< 10.0	ug/L		1/7/2020	17:49
Dibromochloromethane	< 2.00	ug/L		1/7/2020	17:49
Dichlorodifluoromethane	< 2.00	ug/L		1/7/2020	17:49
Ethylbenzene	< 2.00	ug/L		1/7/2020	17:49
Freon 113	< 2.00	ug/L		1/7/2020	17:49
Isopropylbenzene	< 2.00	ug/L		1/7/2020	17:49
m,p-Xylene	< 2.00	ug/L		1/7/2020	17:49
Methyl acetate	< 2.00	ug/L		1/7/2020	17:49
Methyl tert-butyl Ether	**13.9**	ug/L		1/7/2020	17:49
Methylcyclohexane	< 2.00	ug/L		1/7/2020	17:49
Methylene chloride	< 5.00	ug/L		1/7/2020	17:49
Naphthalene	< 5.00	ug/L		1/7/2020	17:49
n-Butylbenzene	< 2.00	ug/L		1/7/2020	17:49
n-Propylbenzene	< 2.00	ug/L		1/7/2020	17:49

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: MWR-102
Lab Sample ID: 200044-09 **Date Sampled:** 1/3/2020
Matrix: Groundwater **Date Received:** 1/3/2020

o-Xylene	< 2.00	ug/L	1/7/2020	17:49
p-Isopropyltoluene	< 2.00	ug/L	1/7/2020	17:49
sec-Butylbenzene	< 2.00	ug/L	1/7/2020	17:49
Styrene	< 5.00	ug/L	1/7/2020	17:49
tert-Butylbenzene	< 2.00	ug/L	1/7/2020	17:49
Tetrachloroethene	< 2.00	ug/L	1/7/2020	17:49
Toluene	< 2.00	ug/L	1/7/2020	17:49
trans-1,2-Dichloroethene	< 2.00	ug/L	1/7/2020	17:49
trans-1,3-Dichloropropene	< 2.00	ug/L	1/7/2020	17:49
Trichloroethene	< 2.00	ug/L	1/7/2020	17:49
Trichlorofluoromethane	< 2.00	ug/L	1/7/2020	17:49
Vinyl chloride	< 2.00	ug/L	1/7/2020	17:49

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**119**	74.3 - 138		1/7/2020	17:49
4-Bromofluorobenzene	**85.1**	66.3 - 125		1/7/2020	17:49
Pentafluorobenzene	**97.9**	87.4 - 111		1/7/2020	17:49
Toluene-D8	**89.2**	85.8 - 113		1/7/2020	17:49

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x67691.D

Report Prepared Thursday, January 16, 2020

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: Trip Blank
Lab Sample ID: 200044-10
Matrix: Water
Date Sampled: 1/2/2020
Date Received: 1/3/2020

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		1/6/2020 22:00
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		1/6/2020 22:00
1,1,2-Trichloroethane	< 2.00	ug/L		1/6/2020 22:00
1,1-Dichloroethane	< 2.00	ug/L		1/6/2020 22:00
1,1-Dichloroethene	< 2.00	ug/L		1/6/2020 22:00
1,2,3-Trichlorobenzene	< 5.00	ug/L		1/6/2020 22:00
1,2,4-Trichlorobenzene	< 5.00	ug/L		1/6/2020 22:00
1,2,4-Trimethylbenzene	< 2.00	ug/L		1/6/2020 22:00
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		1/6/2020 22:00
1,2-Dibromoethane	< 2.00	ug/L		1/6/2020 22:00
1,2-Dichlorobenzene	< 2.00	ug/L		1/6/2020 22:00
1,2-Dichloroethane	< 2.00	ug/L		1/6/2020 22:00
1,2-Dichloropropane	< 2.00	ug/L		1/6/2020 22:00
1,3,5-Trimethylbenzene	< 2.00	ug/L		1/6/2020 22:00
1,3-Dichlorobenzene	< 2.00	ug/L		1/6/2020 22:00
1,4-Dichlorobenzene	< 2.00	ug/L		1/6/2020 22:00
1,4-Dioxane	< 20.0	ug/L		1/6/2020 22:00
2-Butanone	< 10.0	ug/L		1/6/2020 22:00
2-Hexanone	< 5.00	ug/L		1/6/2020 22:00
4-Methyl-2-pentanone	< 5.00	ug/L		1/6/2020 22:00
Acetone	< 10.0	ug/L		1/6/2020 22:00
Benzene	< 1.00	ug/L		1/6/2020 22:00
Bromochloromethane	< 5.00	ug/L		1/6/2020 22:00

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: Trip Blank
Lab Sample ID: 200044-10 **Date Sampled:** 1/2/2020
Matrix: Water **Date Received:** 1/3/2020

Bromodichloromethane	< 2.00	ug/L	1/6/2020	22:00
Bromoform	< 5.00	ug/L	1/6/2020	22:00
Bromomethane	< 2.00	ug/L	1/6/2020	22:00
Carbon disulfide	< 2.00	ug/L	1/6/2020	22:00
Carbon Tetrachloride	< 2.00	ug/L	1/6/2020	22:00
Chlorobenzene	< 2.00	ug/L	1/6/2020	22:00
Chloroethane	< 2.00	ug/L	1/6/2020	22:00
Chloroform	< 2.00	ug/L	1/6/2020	22:00
Chloromethane	< 2.00	ug/L	1/6/2020	22:00
cis-1,2-Dichloroethene	< 2.00	ug/L	1/6/2020	22:00
cis-1,3-Dichloropropene	< 2.00	ug/L	1/6/2020	22:00
Cyclohexane	< 10.0	ug/L	1/6/2020	22:00
Dibromochloromethane	< 2.00	ug/L	1/6/2020	22:00
Dichlorodifluoromethane	< 2.00	ug/L	1/6/2020	22:00
Ethylbenzene	< 2.00	ug/L	1/6/2020	22:00
Freon 113	< 2.00	ug/L	1/6/2020	22:00
Isopropylbenzene	< 2.00	ug/L	1/6/2020	22:00
m,p-Xylene	< 2.00	ug/L	1/6/2020	22:00
Methyl acetate	< 2.00	ug/L	1/6/2020	22:00
Methyl tert-butyl Ether	< 2.00	ug/L	1/6/2020	22:00
Methylcyclohexane	< 2.00	ug/L	1/6/2020	22:00
Methylene chloride	< 5.00	ug/L	1/6/2020	22:00
Naphthalene	< 5.00	ug/L	1/6/2020	22:00
n-Butylbenzene	< 2.00	ug/L	1/6/2020	22:00
n-Propylbenzene	< 2.00	ug/L	1/6/2020	22:00

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 200044

Client: **Bergmann Associates**

Project Reference: VOA Back Lot

Sample Identifier: Trip Blank
Lab Sample ID: 200044-10 **Date Sampled:** 1/2/2020
Matrix: Water **Date Received:** 1/3/2020

o-Xylene	< 2.00	ug/L	1/6/2020	22:00
p-Isopropyltoluene	< 2.00	ug/L	1/6/2020	22:00
sec-Butylbenzene	< 2.00	ug/L	1/6/2020	22:00
Styrene	< 5.00	ug/L	1/6/2020	22:00
tert-Butylbenzene	< 2.00	ug/L	1/6/2020	22:00
Tetrachloroethene	< 2.00	ug/L	1/6/2020	22:00
Toluene	< 2.00	ug/L	1/6/2020	22:00
trans-1,2-Dichloroethene	< 2.00	ug/L	1/6/2020	22:00
trans-1,3-Dichloropropene	< 2.00	ug/L	1/6/2020	22:00
Trichloroethene	< 2.00	ug/L	1/6/2020	22:00
Trichlorofluoromethane	< 2.00	ug/L	1/6/2020	22:00
Vinyl chloride	< 2.00	ug/L	1/6/2020	22:00

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	**106**	74.3 - 138		1/6/2020	22:00
4-Bromofluorobenzene	**82.3**	66.3 - 125		1/6/2020	22:00
Pentafluorobenzene	**100**	87.4 - 111		1/6/2020	22:00
Toluene-D8	**91.7**	85.8 - 113		1/6/2020	22:00

Method Reference(s): EPA 8260C
EPA 5030C
Data File: x67668.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

1 of 3

CHAIN OF CUSTODY

Page 1 of 2

PARADIGM

REPORT TO:		INVOICE TO:		
CLIENT: Bergmann		CLIENT:		LAB PROJECT ID: 200044
ADDRESS: 280 E Broad St,		ADDRESS:		
CITY: Rochester STATE: NY ZIP: 14608		CITY: STATE: ZIP:		Quotation #:
PHONE:		PHONE:		Email:
ATTN: Steve DeMeo		ATTN:		

PROJECT REFERENCE: VOA Back Lot

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	8260 TCL + TAL Metals	8270 TCL	per Sample labels GP 1/3/20	REMARKS	PARADIGM LAB SAMPLE NUMBER
1/3/20	0930		X	MWR-101	WG	4	X	X X			01
1/3/20	1000		X	MW-101	WG	4	X	X X			02
1/3/20	1030		X	MW-103	WG	4	X	X X			03
1/3/20	1115		X	MW-107	WG	4	X	X X			04
1/3/20	1120		X	MW-10	WG	4	X	X X			05
1/3/20	1200		X	MW-105	WG	4	X	X X			06
1/3/20	1245		X	MW-106	WG	4	X	X X			07
1/3/20	130		X	MW-102	WG	4	X	X X			08
1/3/20	200		X	MWR-202	WG	4	X	X X			09
1/3/20	200		X	MWR-202MS	WG	4	X	X X			

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	None Required	☐	None Required	☐
10 day	☒	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Date Needed _____ please indicate date needed:		Other please indicate package needed:	☐	Other EDD please indicate EDD needed:	☐

Stephen J. DeMeo ASP, CAT. B,

Sampled By: Date/Time: 1/3/20 230

Relinquished By: Date/Time:

Emily Faumen 1/3/20 1430

Received By: Date/Time: 1/3/20 14:36

Received @ Lab By: Date/Time:

7°C iced started in field 1/3/20 14:35

Total Cost:

P.I.F.

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

Custody Seal N/A, samples delivered by client. GP 1/3/20

See additional page for sample conditions.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

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CHAIN OF CUSTODY

Page 2 of 2

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:			INVOICE TO:			
CLIENT: Bergmann			CLIENT:			LAB PROJECT ID: 200044
ADDRESS:			ADDRESS:			Quotation #:
CITY:	STATE:	ZIP	CITY:	STATE:	ZIP:	Email:
PHONE:			PHONE:			
ATTN:			ATTN:			

PROJECT REFERENCE
VOA BACK Lot

Matrix Codes:
AQ - Aqueous Liquid; **NQ** - Non-Aqueous Liquid; **WA** - Water; **WG** - Groundwater; **DW** - Drinking Water; **WW** - Wastewater; **SO** - Soil; **SL** - Sludge; **SD** - Solid; **PT** - Paint; **WP** - Wipe; **CK** - Caulk; **OL** - Oil; **AR** - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	8260 TCL+TICs	TAL Metals	8270							REMARKS	PARADIGM LAB SAMPLE NUMBER
1/3/20	200		X	MWR-202 MSD	WG	4	X	X	X								09
1/2/20	—		X	Trip Blank		1	X										10
T960 per sample label																	
GP 1/3/20																	

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	None Required	☐	None Required	☐
10 day	☒	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☒
Rush 2 day	☐	Category B	☒		
Rush 1 day	☐				
Date Needed _____ please indicate date needed:		Other please indicate package needed:	☐	Other EDD please indicate EDD needed :	☐

Stephen J. DeMeo ASP. CAT. B,

Sampled By	Date/Time	
Relinquished By	1/3/20 230 Date/Time	Total Cost:
Emily Faumen	1/3/20 1430 Date/Time	
Received By		P.I.F.
Received @ Lab By	1/3/20 14:35 Date/Time	

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

PARADIGM

Chain of Custody Supplement

Client: Bergmann **Completed by:** Glenn Pezzulo

Lab Project ID: 200044 **Date:** 1/3/20

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	X VOA		X
Comments			
Preservation	X		X SVOA
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		X metals
Comments	7°C iced started in field		
Compliant Sample Quantity/Type	X		
Comments			